Product Datasheet

GAPDH Antibody
NB300-322

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

www.novusbio.com technical@novusbio.com

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Updated 9/9/2025 v.20.1

NB300-322

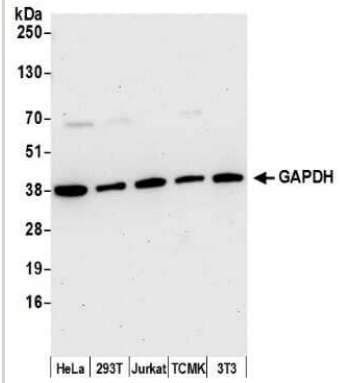
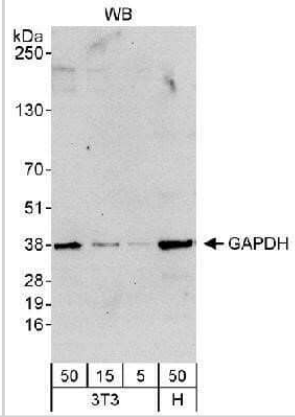
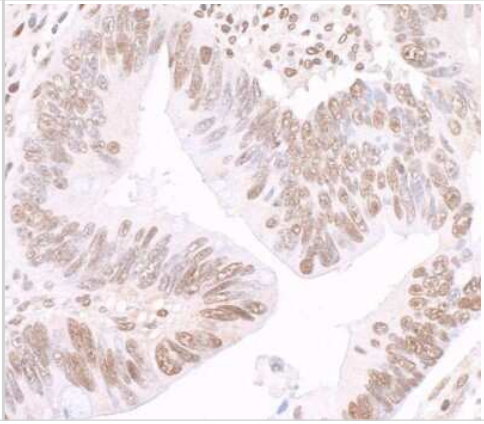
GAPDH Antibody

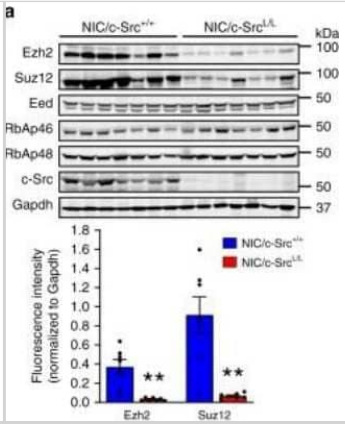
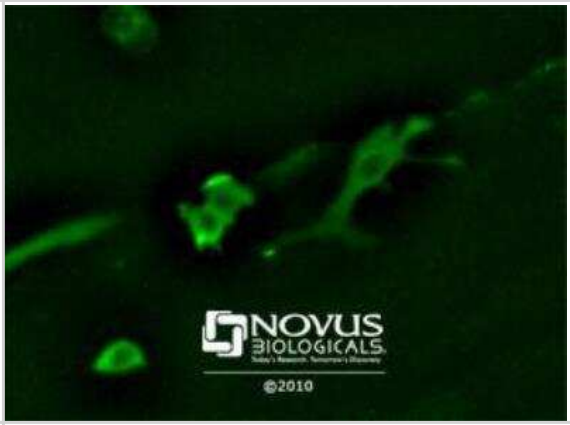
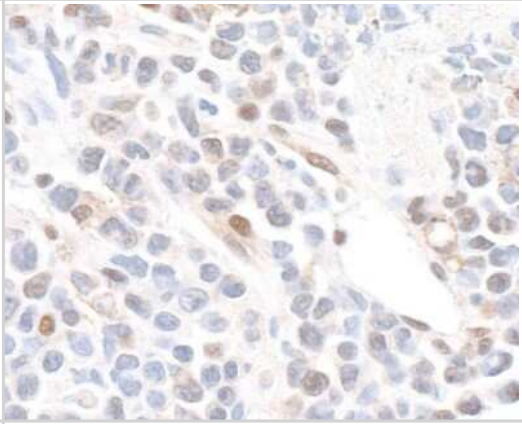
Product Information	
Unit Size	0.1 ml
Concentration	0.2 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	TBS and 0.1% BSA
Target Molecular Weight	36 kDa

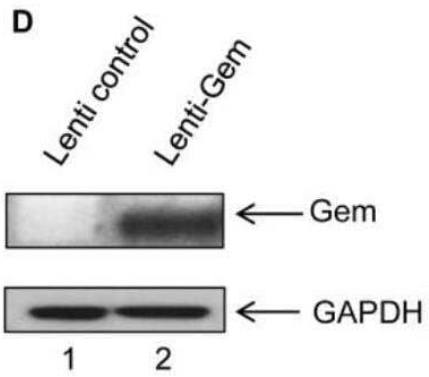
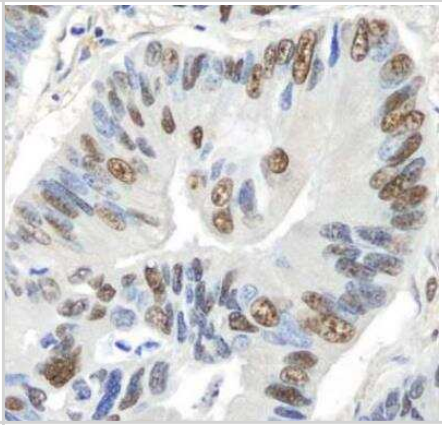
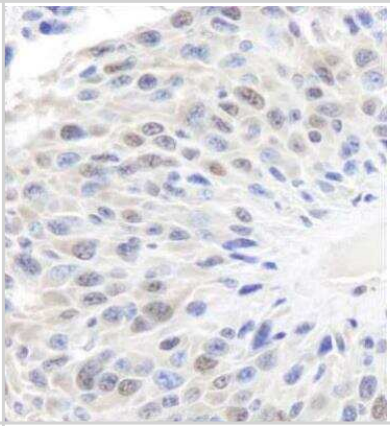
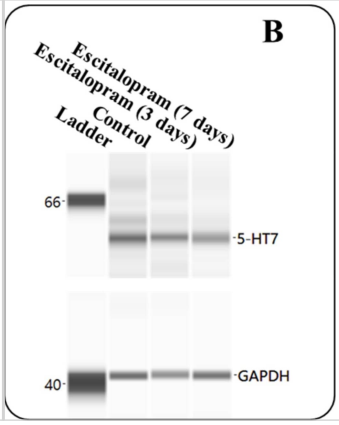
Product Description	
Description	Novus Biologicals Rabbit GAPDH Antibody (NB300-322) is a polyclonal antibody validated for use in IHC, WB, ICC/IF, Simple Western and IP. Anti-GAPDH Antibody: Cited in 42 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	2597
Gene Symbol	GAPDH
Species	Human, Mouse, Rat, Chicken, Primate
Reactivity Notes	Chicken reactivity reported in scientific literature (Youngworth IA et al).
Marker	Cytosolic Marker
Immunogen	This GAPDH antibody was developed against an epitope between residues 150 and 200 of human GAPDH using the numbering given in entry NP_002037.2 (GeneID 2597).

Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunoprecipitation, Knockdown Validated
Recommended Dilutions	Western Blot 1:2000-1:10000, Simple Western 1:100, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:50-1:200, Immunoprecipitation, Immunohistochemistry-Paraffin 1:100-1:500, Knockdown Validated
Application Notes	This GAPDH antibody is useful for Western Blot, Immunocytochemistry/Immunofluorescence and Immunohistochemistry-Paraffin applications. For IHC, antigen retrieval with citrate buffer pH6.0 is recommended for formalin fixed paraffin embedded tissue sections. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in Brain, separated by Size, antibody dilution of 1:100. Separated by Size-Wes, Sally Sue/Peggy Sue. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

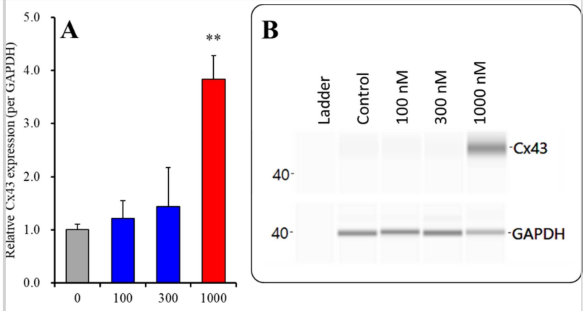
Images

Simple Western: GAPDH Antibody [NB300-322] - Simple Western lane view shows a specific band for GAPDH in 1.0 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system. Note: band observed higher than predicted molecular weight of 36 kDa.	
Western Blot: GAPDH Antibody [NB300-322] - Detection of Human and Mouse GAPDH (theoretical molecular weight: 36 kDa) by Western Blot. Samples: Whole cell lysate (15 ug) from HeLa, 293T, Jurkat, mouse TCMK-1, and mouse NIH3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-GAPDH antibody NB300-322 used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.	
Western Blot: GAPDH Antibody [NB300-322] - Detection of Human and Mouse GAPDH (theoretical molecular weight: 36 kDa) by Western Blot. Samples: Whole cell lysate from mouse NIH3T3 (5, 15 and 50 ug) and human HeLa (H; 50 ug) cells. Antibody: Affinity purified rabbit anti-GAPDH antibody used at 0.04 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.	
Immunohistochemistry: GAPDH Antibody [NB300-322] - Detection of human GAPDH by immunohistochemistry. Sample: FFPE section of human colon carcinoma. Antibody: Affinity purified rabbit anti-GAPDH (NB300-322). Detection: DAB	

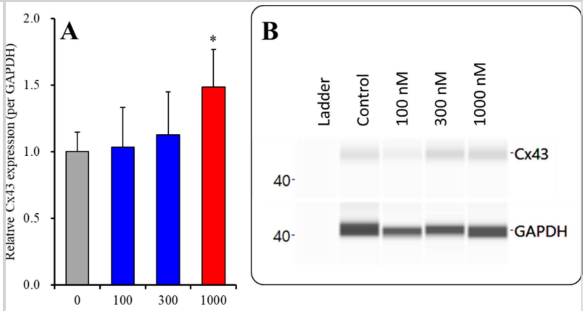
Western Blot: GAPDH Antibody [NB300-322] - c-Src is required for efficient translation of PRC2 component mRNAs. Immunoblot of PRC2 components in control and c-Src-deficient tumors. Bar chart shows quantification of fluorescent immunoblot data normalized to the loading control (Gapdh). Image collected and cropped by CiteAb from the following publication (https://www.nature.com/articles/s41467-019-10681-4), licensed under a CC-BY license.	
Immunocytochemistry/Immunofluorescence: GAPDH Antibody [NB300-322] - GAPDH detection in HeLa cells with ICC-IF application using NB300-322, visualized with DyLight Fluor 488.	
Immunohistochemistry: GAPDH Antibody [NB300-322] - Detection of mouse GAPDH by immunohistochemistry. Sample: FFPE section of mouse plasmacytoma. Antibody: Affinity purified rabbit anti-GAPDH (NB300-322). Detection: DAB	
Western Blot: GAPDH Antibody [NB300-322] - Mouse DRG stained at 1:2000 dilution. Image provided by verified customer review.	

Western Blot: GAPDH Antibody [NB300-322] - Gem expression is sufficient to increase chemokinesis and chemotaxis. Western blot analyses were performed on 70 ug of cellular extracts from MOLT4 cells transduced by Lenti-control or Lenti-GEM viral particles. Membranes were probed with anti-Gem (1:2,000) or anti-GAPDH (1:1,000) antibody. ***: significantly different, p<0.0001, Student's t-test. Image collected and cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.ppat.1003917) licensed under a CC-BY license	
Immunohistochemistry-Paraffin: GAPDH Antibody [NB300-322] - IHC-P detection of GAPDH in formalin fixed paraffin embedded section of human lung carcinoma using NB300-322 at a dilution of 1:200.	
Immunohistochemistry-Paraffin: GAPDH Antibody [NB300-322] - IHC-P detection of GAPDH in formalin fixed paraffin embedded section of mouse squamous cell carcinoma using NB300-322 at a dilution of 1:200.	
Time-dependent effects of subacute administration of effective dose of escitalopram (5 mg/kg/day) for 3 & 7 days on expression of 5-HT7R in the thalamic plasma membrane fraction (Panel (A)). Ordinate: mean ± SD (n = 6) of the relative protein level of 5-HT7R in the thalamic plasma membrane fraction. Panel (B) indicates the pseudo-gel images using capillary immunoblotting. ** p < 0.01 vs. control by one-way analysis of variance with Tukey's post-hoc test. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/33572981), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

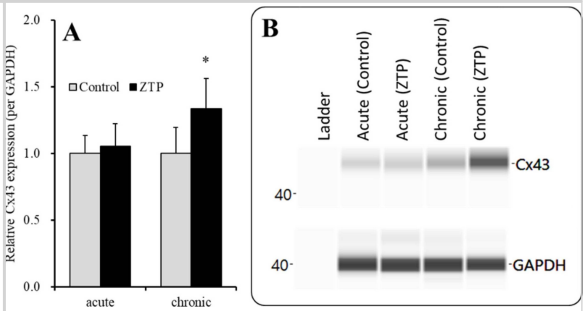
Western Blot: GAPDH Antibody [NB300-322] - Concentration-dependent effects of subchronic administration of ZTP on Cx43 protein expression in the plasma membrane fraction (A) & their pseudogel images, using capillary immunoblotting (B). Ordinate: mean ± SD (n = 6) of the relative protein level of Cx43 (per GAPDH). Concentration-dependent effects of ZTP (100, 300 & 1000 nM) on Cx43 expression in the plasma membrane fraction of the primary cultured astrocytes were analysed by one-way ANOVA with Tukey's (wholly significant difference) post hoc test (** p < 0.01 vs. ZTP free (0)). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/34832898), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



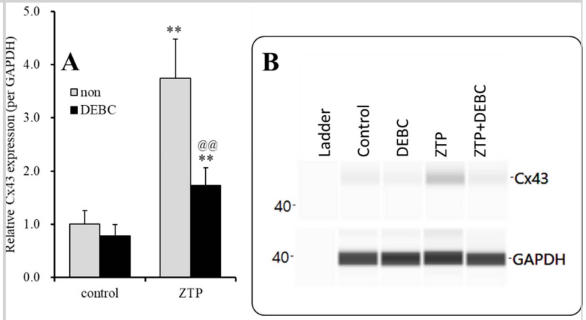
Western Blot: GAPDH Antibody [NB300-322] - Concentration-dependent effects of subchronic administration of ZTP on Cx43 protein expression in the cytosol fraction (A) & their pseudogel images, using capillary immunoblotting (B). Ordinate: mean ± SD (n = 6) of the relative protein level of Cx43 (per GAPDH). Concentration-dependent effects of ZTP (100, 300 & 1000 nM) on Cx43 expression in the cytosol fraction of the primary cultured astrocytes were analysed by one-way ANOVA with Tukey's (wholly significant difference) post hoc test (* p < 0.05 vs. ZTP free (0)). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/34832898), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

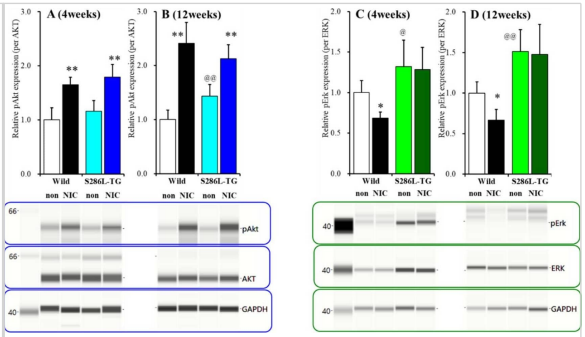
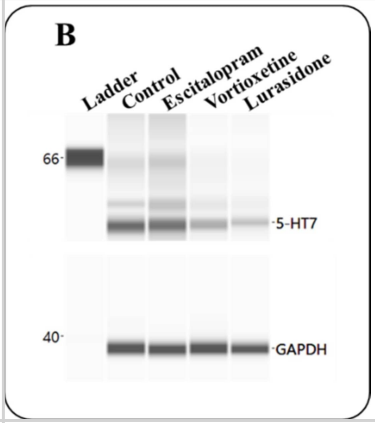
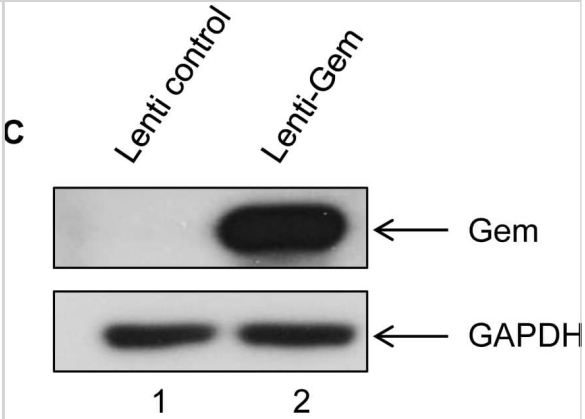
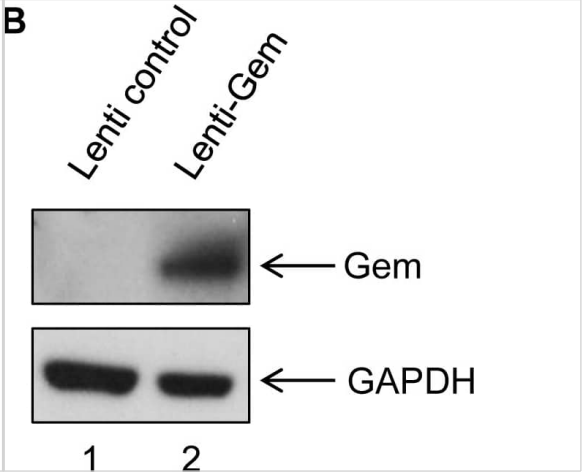


Western Blot: GAPDH Antibody [NB300-322] - Effects of acute (120 min) administration of supratherapeutic concentration of ZTP (1000 nM) & chronic (14 days) administration of therapeutically relevant concentrations of ZTP (300 nM) on Cx43 protein expression in the plasma membrane fraction (A) & their pseudogel images, using capillary immunoblotting (B). Ordinate: mean ± SD (n = 6) of the relative protein level of Cx43 (per GAPDH). Effects of ZTP on Cx43 expression in the plasma membrane fraction of the primary cultured astrocytes were analysed by student T-test (* p < 0.05 vs. control: ZTP free). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/34832898), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

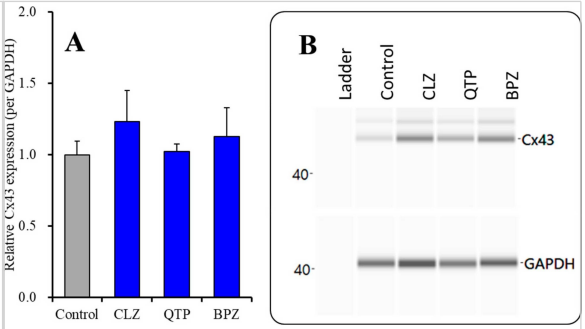


Western Blot: GAPDH Antibody [NB300-322] - Interaction between subchronic administration of supratherapeutic concentration of ZTP & Akt inhibitor (DEBC) on Cx43 protein expression in the astroglial plasma membrane fraction (A) & their pseudogel images, using capillary immunoblotting (B). Ordinate: mean ± SD (n = 6) of the relative protein level of Cx43 (per GAPDH). Effects of ZTP (1000 nM) & Akt inhibitor (DEBC: 10 μM) on Cx43 expression in the plasma membrane fraction of the primary cultured astrocytes were analysed by two-way ANOVA with Tukey's (wholly significant difference) post hoc test (** p < 0.01 vs. control, @@ p < 0.01 vs. non). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/34832898), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

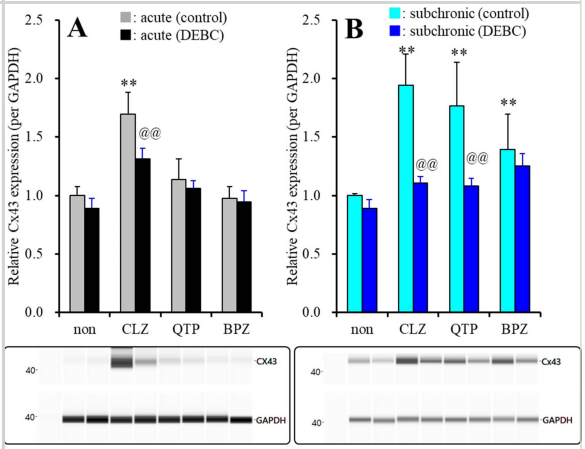


Simple Western: GAPDH Antibody [NB300-322] - Effects of subchronic nicotine administration on the expression of phosphorylated protein kinase B (pAkt) & phosphorylated extracellular signal-regulated kinase (pErk) in the plasma membrane fraction of OFC. Effects of the systemic subchronic administration of nicotine (50 mg/kg/day for seven days) on pAkt & pErk expression in the OFC plasma membrane fraction before four week of age (A,C) & after 12 week of age (B,D), ADSHE onset of the wild-type & S286L-TG & pseudo-gel images, using capillary immunoblotting. Ordinate: mean ± SD (n = 6) of the relative protein level of pErk & pAkt. * p < 0.05, ** p < 0.01 vs. wild-type, & @ p < 0.05, @@ p < 0.01 vs. nicotine-free (non) by two-way ANOVA with Tukey's multiple comparison. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/33143372), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	
Simple Western: GAPDH Antibody [NB300-322] - Effects of the subacute administration of effective doses of vortioxetine (2.5 mg/kg/day), escitalopram (5 mg/kg/day), & lurasidone (3 mg/kg/day) for 3 days on the expression of 5-HT7R in the thalamic plasma membrane fraction (Panel (A)). Ordinate: mean ± SD (n = 6) of the relative protein level of 5-HT7R in the thalamic plasma membrane fraction. Panel (B) indicates the pseudo-gel images using capillary immunoblotting. * p < 0.05, ** p < 0.01 vs. the control by Student's t-test. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/33572981), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	
Western Blot: GAPDH Antibody [NB300-322] - Gem expression is sufficient to increase cell motility.(A): HeLa cells were transduced with Lenti-control or Lenti-Tax viral particles. When cells reached 100% confluence, a wound was made in the cell monolayer & pictures were taken at 0 h & up to 12 h post-wounding. Measurements between the 2 fronts of migration were performed using image-J software (NIH, USA). (B): Percentage of healing during a 12 h kinetic. (C): Western blot analyses were performed on 70 µg of cellular extracts transduced by Lenti-control or Lenti-Tax viral particles. Membranes were probed with anti-Gem (1□2,000) or anti-GAPDH (1□1,000) antibody. Image collected & cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.ppat.1003917), licensed under a CC0 -1.0 license. Not internally tested by Novus Biologicals.	
Western Blot: GAPDH Antibody [NB300-322] - Gem expression is sufficient to increase chemokinesis & chemotaxis.(A, C): MOLT4 cells were transduced with Lenti-control or Lenti-GEM. Forty-eight hours later, 5.105 cells were collected & loaded on a 5 µm permeable Transwell filter in absence or presence of SDF1/CXCL12 (150 ng/ml). Twenty-four hours later, cell migration was quantified by flow cytometry (flow cytometer Facscalibur4c+HTS (BD biosciences)). (B, D): Western blot analyses were performed on 70 µg of cellular extracts from MOLT4 cells transduced by Lenti-control or Lenti-GEM viral particles. Membranes were probed with anti-Gem (1□2,000) or anti-GAPDH (1□1,000) antibody. ***: significantly different, p<0.0001, Student's t-test. Image collected & cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.ppat.1003917), licensed under a CC0 -1.0 license. Not internally tested by Novus Biologicals.	

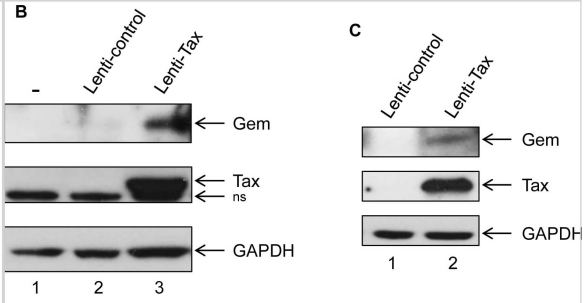
Western Blot: GAPDH Antibody [NB300-322] - Effects of subchronic administration of therapeutic-relevant concentration of antipsychotics, CLZ (3 μM), QTP (1 μM) & BPZ (0.3 μM), on Cx43 protein expression in the plasma fraction (A) & their pseudo-gel images, using capillary immunoblotting (B). Ordinate: mean ± SD (n = 6) of the relative protein level of Cx43 (per GAPDH). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/34070699), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



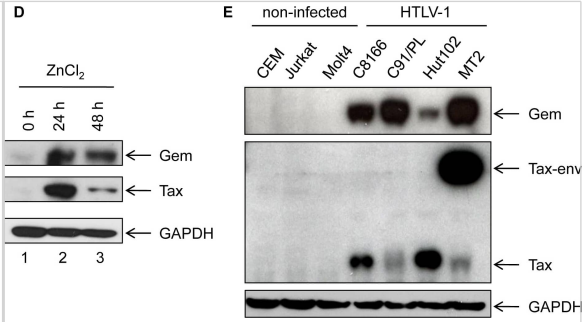
Western Blot: GAPDH Antibody [NB300-322] - Interaction between acute administration of therapeutic-relevant concentration of antipsychotics & Akt inhibitor (DEBC) on Cx43 protein expression in the astroglial plasma membrane fraction, after subchronic administration of therapeutic-relevant concentration of VPA (500 μM) (A). Interaction between subchronic administration of therapeutic-relevant concentration of antipsychotics & DEBC on Cx43 protein expression in the astroglial plasma membrane fraction, after subchronic administration of therapeutic-relevant concentration of VPA (B). Lower panels indicate their pseudo-gel images, using capillary immunoblotting. Ordinate: mean ± SD (n = 6) of the relative protein level of Cx43 (per GAPDH). Effects of antipsychotics & Akt inhibitor (DEBC: 10 μM) on Cx43 expression in the plasma membrane fraction of the primary cultured astrocytes were analyzed by MANOVA with Tukey's post hoc test (** p < 0.01 vs. non, @@ p < 0.01 vs. control). Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/34070699), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



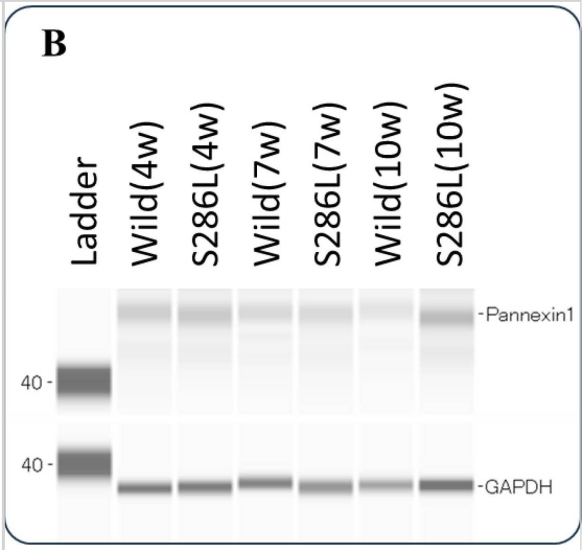
Western Blot: GAPDH Antibody [NB300-322] - Gem is overexpressed in T- & non-T-Tax-expressing cells as well as in HTLV-1 infected cells.(A): Total RNA was extracted from 293T cells transduced with Lenti-control (lane 2) or Lenti-Tax (lane 3) & RT-PCR was performed using gem or GADPH specific primers. Lane 1 is a control of extraction. (B, C): Western blot analyses were performed with 70 μg of proteins from (B) 293T or (C) MOLT4 cells transduced by Lenti-control or Lenti-Tax vectors (72 h post-transduction). (D): JPX-9 cells were grown for 24 h or 48 h in the presence of ZnCl2 (120 μM). Western blot analyses were performed with 70 μg of JPX-9 cellular extracts. (E): Western blot analyses were performed with 70 μg of cellular extracts obtained from non-infected (CEM, Jurkat & MOLT4) or HTLV-1-infected (C8166, C91/PL, Hut102 & MT2) T-lymphocytes. (B, C, D, E): Membranes were probed with anti-Gem (1□2,000) & anti-GAPDH (1□1,000) or anti-Tax Tab 172 (1□500) antibodies. Image collected & cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.ppat.1003917), licensed under a CC0 -1.0 license. Not internally tested by Novus Biologicals.



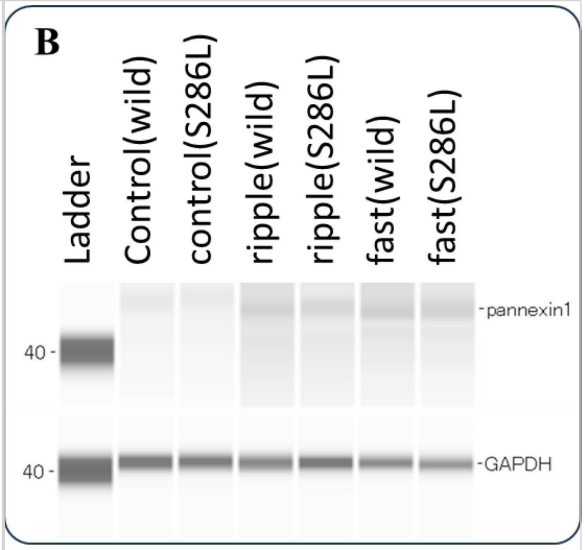
Western Blot: GAPDH Antibody [NB300-322] - Gem is overexpressed in T- & non-T-Tax-expressing cells as well as in HTLV-1 infected cells.(A): Total RNA was extracted from 293T cells transduced with Lenti-control (lane 2) or Lenti-Tax (lane 3) & RT-PCR was performed using gem or GADPH specific primers. Lane 1 is a control of extraction. (B, C): Western blot analyses were performed with 70 µg of proteins from (B) 293T or (C) MOLT4 cells transduced by Lenti-control or Lenti-Tax vectors (72 h post-transduction). (D): JPX-9 cells were grown for 24 h or 48 h in the presence of ZnCl2 (120 µM). Western blot analyses were performed with 70 µg of JPX-9 cellular extracts. (E): Western blot analyses were performed with 70 µg of cellular extracts obtained from non-infected (CEM, Jurkat & MOLT4) or HTLV-1-infected (C8166, C91/PL, Hut102 & MT2) T-lymphocytes. (B, C, D, E): Membranes were probed with anti-Gem (1□2,000) & anti-GAPDH (1□1,000) or anti-Tax Tab 172 (1□500) antibodies. Image collected & cropped by CiteAb from the following publication (https://dx.plos.org/10.1371/journal.ppat.1003917), licensed under a CC0 -1.0 license. Not internally tested by Novus Biologicals.



Simple Western: GAPDH Antibody [NB300-322] - Age-dependent fluctuations of pannexin1 expression in the plasma membrane in OFC of wild type and S286L-TG. Panel (A) indicates expressions of pannexin1 in the plasma mem-brane fraction of OFC of wild type (brown columns) and S286L-TG (green columns) at 4, 7, and 10 weeks of age, respectively. Ordinates indicate the mean ± SD (n = 6) of relative expression of pannexin1 per GAPDH, and abscissas indicate ages (weeks). ** p < 0.01, relative to pannexin1 expression at 4 weeks of age, @@ p < 0.01, relative to the wild type of the same age using two-way ANOVA with Scheffe's post hoc test. F value was [Fage(2,30) = 0.7 (p > 0.1), Fgenotype(1,30) = 30.7 (p < 0.01), Fage*genotype(2,30) = 11.0 (p < 0.01)]. Panel (B) indicates the pseudo-gel images of pannexin1 and GAPDH using capillary immunoblotting. Image collected and cropped by CiteAb under a CC-BY license from the following publication: Age-Dependent Activation of Pannexin1 Function Contributes to the Development of Epileptogenesis in Autosomal Dominant Sleep-related Hypermotor Epilepsy Model Rats. *Int J Mol Sci* (2024). Not internally tested by Novus Biologicals.



Simple Western: GAPDH Antibody [NB300-322] - Astroglial expression in the plasma membrane evoked by ripple burst and fast ripple burst stimulations in wild type and S286L-TG. Panel (A) indicates expression of pannexin1 in the astroglial plasma membrane fraction. Ordinates indicate the mean ± SD (n = 6) of relative expression of pannexin1 per GAPDH. Gray and green bars indicate pannexin1 expression in astrocytes of wild type and S286L-TG after chronic fast ripple-evoked stimulation, respectively. * p < 0.05, ** p < 0.01 using two-way ANOVA with Scheffe's post hoc test. F value was [Fgenotype(1,20) = 16.6 (p < 0.01), Fage(1,20) = 2.0 (p > 0.1), Fgenotype*age(1,20) = 5.4 (p < 0.05)]. Panel (B) indicates the pseudo-gel images of P2X7R and GAPDH, using capillary immunoblotting. Image collected and cropped by CiteAb under a CC-BY license from the following publication: Age-Dependent Activation of Pannexin1 Function Contributes to the Development of Epileptogenesis in Autosomal Dominant Sleep-related Hypermotor Epilepsy Model Rats. *Int J Mol Sci* (2024). Not internally tested by Novus Biologicals.



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Details:
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