

Product Datasheet

VPS35 Antibody NB100-1397

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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Reviews: 5 Publications: 32

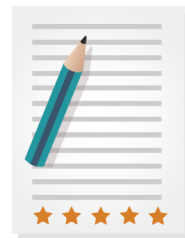
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NB100-1397**VPS35 Antibody**

Product Information	
Unit Size	0.1 mg
Concentration	0.5 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris saline (20 mM Tris pH 7.3, 150 mM NaCl), 0.5% BSA
Target Molecular Weight	91 kDa

Product Description	
Description	Novus Biologicals Goat VPS35 Antibody (NB100-1397) is a polyclonal antibody validated for use in IHC, WB, ELISA and ICC/IF. Anti-VPS35 Antibody: Cited in 27 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Goat
Gene ID	55737
Gene Symbol	VPS35
Species	Human, Mouse, Rat, Canine, Chicken, Chinese Hamster
Reactivity Notes	Predicted cross-reactivity based on sequence identity: Bovine. It has been reported in the literature to react with Chinese hamster ovary cells (PMID: 22747682). Mouse reactivity reported in scientific literature (PMID: 28252385). Canine, chicken and rat reactivity reported from verified customer reviews.
Specificity/Sensitivity	Note there is a hypothetical protein called similar to vacuolar protein sorting 35 (XP_040192.1), which is virtually identical.
Immunogen	Peptide with sequence C-SPESEGPIYEGIL corresponding to C-Terminus according to NP_060676.2.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Peptide ELISA
Recommended Dilutions	Western Blot 0.03 - 0.1 ug/mL, Immunohistochemistry 8 ug/mL, Immunocytochemistry/ Immunofluorescence 10 ug/mL, Immunohistochemistry-Paraffin 8 ug/mL, Peptide ELISA Detection limit 1:128000
Application Notes	Western blot: Approx 90 kDa band observed in Human Brain (Cerebellum) and Mouse Brain lysates (calculated MW of 91.7 kDa according to NP_060676.2).

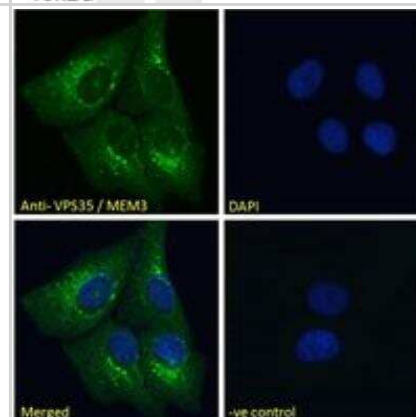


Images

Western Blot: VPS35 Antibody [NB100-1397] - Staining of HepG2 (A) and HEK293 (B) cell lysate (35 ug protein in RIPA buffer). Antibody at 0.03 ug/mL. Detected by chemiluminescence.



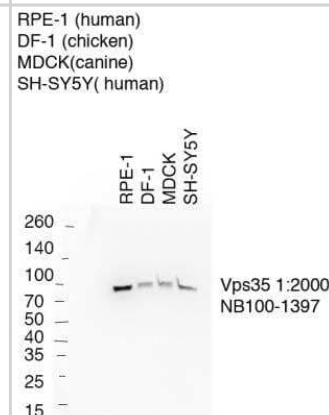
Immunocytochemistry/Immunofluorescence: VPS35 Antibody [NB100-1397] - Immunofluorescence analysis of paraformaldehyde fixed U2OS cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic/vesicle staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



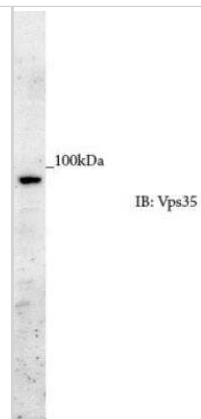
Immunohistochemistry-Paraffin: VPS35 Antibody [NB100-1397] - Negative Control showing staining of paraffin embedded Human Prostate, with no primary antibody.



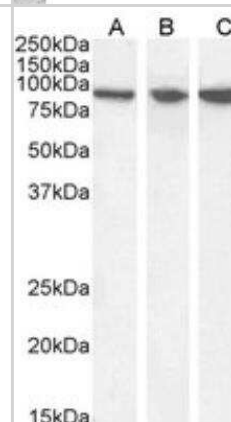
Western Blot: VPS35 Antibody [NB100-1397] - 10 ug cell lysate per lane of various cell lines as indicated, immunoblotted with vps35 antibody at 1:2000 at 4C for 20 hrs. Secondary antibody donkey anti-goat HRP at 1:5000 for 1 hr at room temp. WB image submitted by a verified customer review.



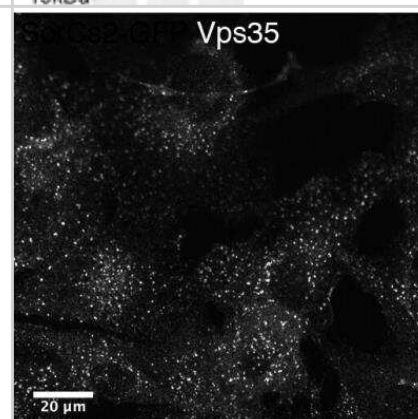
Western Blot: VPS35 Antibody [NB100-1397] - HEK293T cell lysate. WB image submitted by a verified customer review.



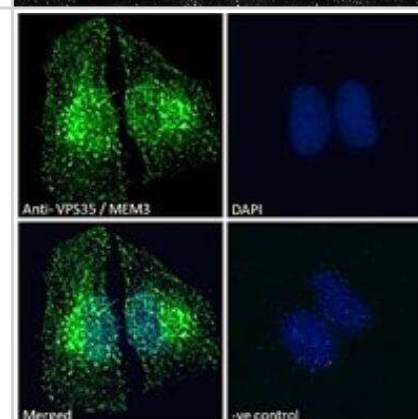
Western Blot: VPS35 Antibody [NB100-1397] - Staining of Human (A) Mouse (B) and Rat (C) Brain lysate (35 ug protein in RIPA buffer). antibody at 0.03 ug/mL. Detected by chemiluminescence.



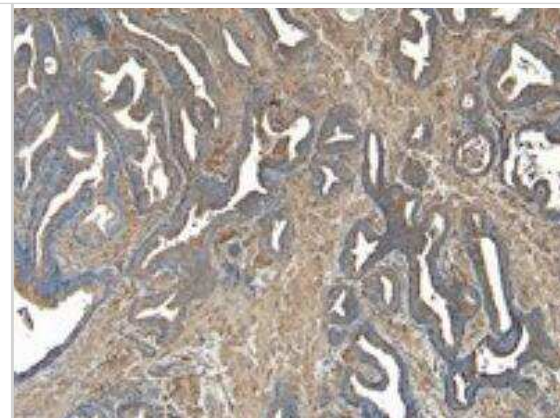
Immunocytochemistry/Immunofluorescence: VPS35 Antibody [NB100-1397] - Confocal microscopy image of human RPE-1 cells fixed with PFA, permeabilized with 0.3% Triton X-100, then immunostained with vps35 antibody at 1:2000 overnight in 1% BSA at 4 degrees. ICC image submitted by a verified customer review.



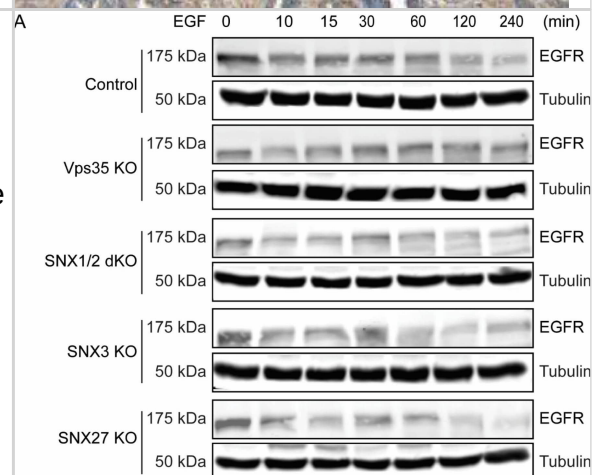
Immunocytochemistry/Immunofluorescence: VPS35 Antibody [NB100-1397] - Immunofluorescence analysis of paraformaldehyde fixed HEK293 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing cytoplasmic/vesicle staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



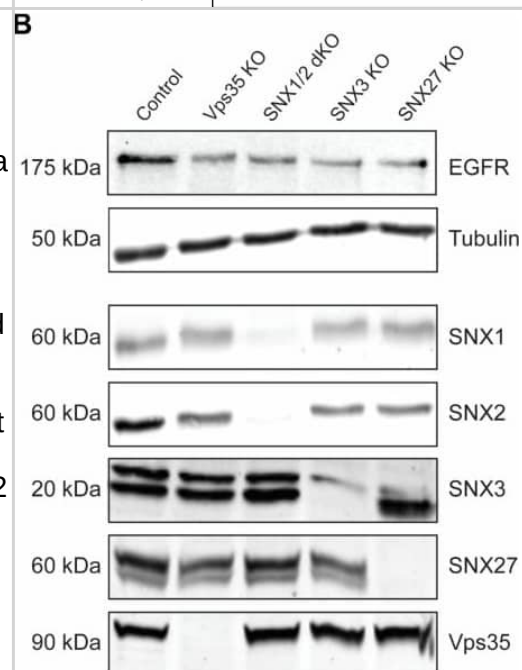
Immunohistochemistry-Paraffin: VPS35 Antibody [NB100-1397] - Staining of paraffin embedded Human Prostate. Antibody at 8 ug/mL. Heat induced antigen retrieval with citrate buffer pH 6, HRP-staining.



Retromer Vps35 or SNX1/2 depletion altered EGF-stimulated EGFR degradation. (A) Serum-starved cells were treated with 100 ug/mL of EGF for different time points. At indicated time points, cells were harvested, and equal amounts of protein samples were used for immunoblotting with EGFR antibody. Representative blots from at least three independent experiments are shown. (B) EGFR levels at each time point were normalized to the EGFR level at 0 min for each cell line. Graph represents the difference of EGFR levels during EGF stimulation (means $\pm$ SEM). Two-tailed student's t-test indicated the difference, * $p < 0.05$, HeLa control vs. Vps35 KO (120 min); * $p < 0.05$, HeLa control vs. Vps35 KO (240 min); ** $p < 0.01$, HeLa control vs. SNX1/2 dKO (240 min). Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36359754>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Depletion of retromer or retromer-associated SNXs decreases EGFR protein levels. (A) Steady-state HeLa control, Vps35 KO, SNX1/2 dKO, SNX3 KO, and SNX27 KO cell monolayers grown in complete-DMEM media on coverslips were fixed in ice-cold methanol, stained with EGFR antibody, and count-stained with DAPI. Images were captured on a Leica SP8 DMI8 confocal microscope using a 60 $\times$ glycerol objective (Scale Bar, 10 μ m). (B) Equal amounts of protein samples from HeLa control, Vps35 KO, SNX1/2 dKO, SNX3 KO, and SNX27 KO cells were subjected to SDS-PAGE and immunoblotting with the antibodies against EGFR, SNX1, SNX2, SNX3, SNX27, and Vps35, whereas tubulin served as a loading control. Representative blots from at least three independent experiments are shown. (C) The fold differences for EGFR protein levels are presented (means $\pm$ SEM). Two-tailed student's t-test indicated the difference between HeLa control and HeLa KO cells, ** $p < 0.01$, HeLa control vs. Vps35 KO; *** $p < 0.001$, HeLa control vs. SNX1/2 dKO; *** $p < 0.001$, HeLa control vs. SNX3 KO; *** $p < 0.001$, HeLa control vs. SNX27 KO. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36359754>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Li Z, Yang Z, Teasdale R Disruption of Retriever Function Impacts Retrograde Trafficking From Endosomes. Cell biology international 2025-05-29 [PMID: 40439270]

Chen KE, Guo Q, Hill TA et al. De novo macrocyclic peptides for inhibiting, stabilizing, and probing the function of the retromer endosomal trafficking complex Science Advances 2021-12-03 [PMID: 34851660]

Sorkina T, Bagalkot T, Cheng MH et Al. Monoamine transporter ubiquitination and inward-open conformation synergistically maximize transporter endocytosis Sci Adv 2024-11-22 [PMID: 39576869]

Tarique Bagalkot, Alexander Sorkin Amphetamine Induces Sex-Dependent Loss of the Striatal Dopamine Transporter in Sensitized Mice eNeuro 2023-12-19 [PMID: 38164591]

Rodriguez LZ The regulation of VPS34 and WNK1 kinase in the proximal tubule of the kidney in health and disease Thesis 2023-01-01 (WB, IHC, Mouse)

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Rodriguez LZ The regulation of VPS34 and WNK1 kinase in the proximal tubule of the kidney in health and disease Thesis 2023-01-01 (WB, IHC, Mouse)

Yang Z, Feng Z, Li Z, Teasdale R Multifaceted Roles of Retromer in EGFR Trafficking and Signaling Activation Cells 2022-10-25 [PMID: 36359754] (WB, Human)

Huang Y, Huang H, Zhou L et al. Mutant D620N and VPS35 induces motor dysfunction and impairs DAT-mediated dopamine recycling pathway Human molecular genetics 2022-06-29 [PMID: 35766879]

Yasa S, Modica G, Sauvageau E Et Al. CLN3 regulates endosomal function by modulating Rab7A effector interactions J. Cell. Sci. 2020-02-07 [PMID: 32034082] (WB, Human)

Cui Y, Yang Z, Flores-Rodriguez N et al. Formation of retromer transport carriers is disrupted by the Parkinson disease-linked Vps35 D620N variant Traffic (Copenhagen, Denmark) 2020-12-21 [PMID: 33347683]

Tammineni P, Jeong Y Y et al. Impaired axonal retrograde trafficking of the retromer complex augments lysosomal deficits in Alzheimer's disease neurons. Hum Mol Genet 2017-11-15 [PMID: 28973312] (IF/IHC, WB, Mouse)

More publications at <http://www.novusbio.com/NB100-1397>





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Products Related to NB100-1397

NB820-59177	Human Brain Whole Tissue Lysate (Adult Whole Normal)
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF017	Rabbit anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
HAF109	Donkey anti-Goat IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB410-28088-1mg	Goat IgG Isotype Control

Limitations

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