

Product Datasheet

Glycogen Phosphorylase BB/GPBB Antibody NBP1-32799

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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Publications: 18

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NBP1-32799**Glycogen Phosphorylase BB/GPBB Antibody**

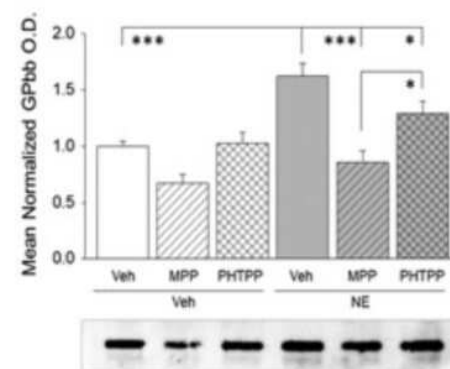
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.025% Proclin 300
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	PBS, 1% BSA, 20% Glycerol
Target Molecular Weight	97 kDa

Product Description	
Description	Novus Biologicals Rabbit Glycogen Phosphorylase BB/GPBB Antibody (NBP1-32799) is a polyclonal antibody validated for use in IHC and WB. Anti-Glycogen Phosphorylase BB/GPBB Antibody: Cited in 18 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	5834
Gene Symbol	PYGB
Species	Human, Mouse
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 30954669). Immunogen displays the following percentage of sequence identity for non-tested species: Zebrafish (85%), Chicken (86%).
Immunogen	Recombinant protein encompassing a sequence within the C-terminus region of human Glycogen Phosphorylase BB/GPBB. The exact sequence is proprietary.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500-1:3000, Immunohistochemistry 1:100-1:1000, Immunohistochemistry-Paraffin 1:100-1:1000

Images

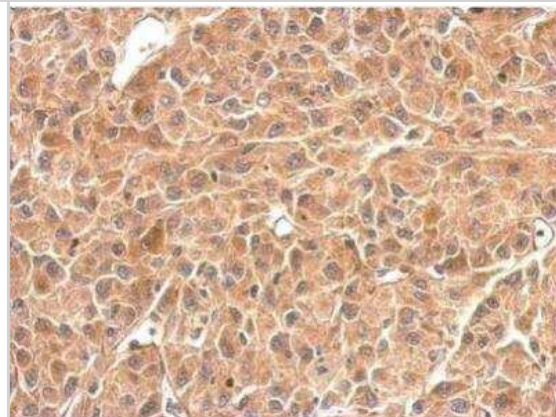
Western Blot: Glycogen Phosphorylase BB/GPBB Antibody [NBP1-32799] - ER alpha and ER beta Involvement in Noradrenergic Regulation of VMN Glycogen Phosphorylase BB/GPBB Protein Expression. Micropunch-dissected VMN tissue obtained from groups of female rats (n=6/group) infused into the VMN with Veh or NE after Veh, MPP, or PHTPP pretreatment was analyzed by Western blot for GPbb, F(5, 12)=12.90, p<.0001. Data show mean normalized protein optical density (O.D.) values+/-SEM. *p<.05; **p<.01; ***p<.001. Image collected and cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/32233668/>) licensed under a CC-BY license.

5B VMN GPbb

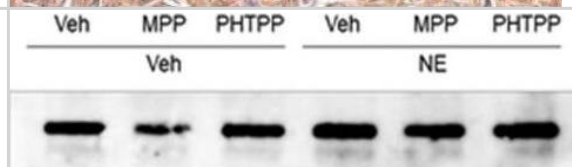
Immunohistochemistry-Paraffin: Glycogen Phosphorylase BB/GPBB Antibody [NBP1-32799] - Mouse fore brain. GPBB antibody dilution: 1:500. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



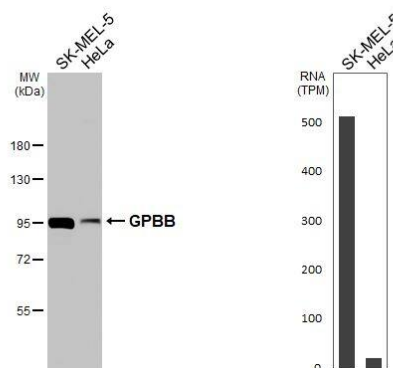
Immunohistochemistry-Paraffin: Glycogen Phosphorylase BB/GPBB Antibody [NBP1-32799] - U87 xenograft. GPBB antibody dilution: 1:500. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



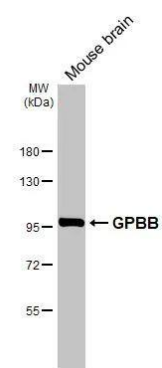
Western Blot: Glycogen Phosphorylase BB/GPBB Antibody [NBP1-32799] - ER α & ER β Involvement in Noradrenergic Regulation of VMN GS & GPbb/GPmm Protein Expression. Micropunch-dissected VMN tissue obtained from groups of female rats (n = 6/group) infused into the VMN with Veh or NE after Veh, MPP, or PHTPP pretreatment was analyzed by Western blot for GS (Panel 5A), F(5, 12) = 8.44, p = .0003; GPbb (Panel 5B), F(5, 12) = 12.90, p < .0001; or GPmm (Panel 5C), F(5, 12) = 16.49, p < .0001 protein content. Data show mean normalized protein optical density (O.D.) values \pm SEM. *p < .05; **p < .01; ***p < .001. VMN = ventromedial hypothalamic nucleus; GS = glycogen synthase; GPmm = glycogen phosphorylase-muscle type; GPbb = glycogen phosphorylase-brain type; MPP = 1,3-Bis(4-hydroxyphenyl)-4-methyl-5-[4-(2-piperidinylethoxy)phenol]-1H-pyrazole dihydrochloride; PHTPP = 4-[2-phenyl-5,7-bis(trifluoromethyl)pyrazolo[1,5-a]pyrimidin-3-yl]phenol; NE = norepinephrine. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/32233668>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Various whole cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with Glycogen Phosphorylase BB/GPBB antibody (NBP1-32799) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody. Corresponding RNA expression data for the same cell lines are based on Human Protein Atlas program.



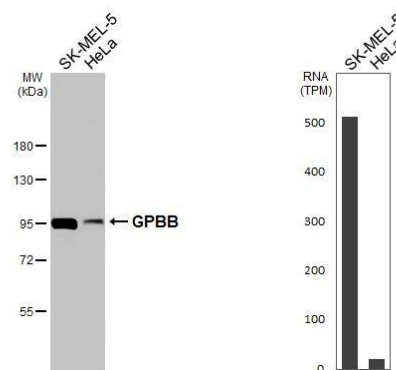
Mouse tissue extract (50 ug) was separated by 7.5% SDS-PAGE, and the membrane was blotted with Glycogen Phosphorylase BB/GPBB antibody (NBP1-32799) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



Mouse tissue extract (50 ug) was separated by 7.5% SDS-PAGE, and the membrane was blotted with GPBB antibody (NBP1-32799) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



Various whole cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with GPBB antibody (NBP1-32799) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody. Corresponding RNA expression data for the same cell lines are based on Human Protein Atlas program.



Publications

Alhamyani A, Mahmood ASMH, Alshamrani A et al. Central Type II Glucocorticoid Receptor Regulation of Ventromedial Hypothalamic Nucleus Glycogen Metabolic Enzyme and Glucoregulatory Neurotransmitter Marker Protein Expression in the Male Rat J Endocrinol Diabetes 2021-01-13 [PMID: 34258390] (Western Blot, Rat)

Uddin MM, Ibrahim MMH, Briski KP. Glycogen Phosphorylase Isoform Regulation of Ventromedial Hypothalamic Nucleus Gluco-Regulatory Neuron 5'-AMP-Activated Protein Kinase and Transmitter Marker Protein Expression ASN neuro 2021-10-01 [PMID: 34596459] (Western Blot, Rat)

Ibrahim MMH, Bheemanapally K, Sylvester PW, Briski KP. Norepinephrine Regulation of Adrenergic Receptor Expression, 5' AMP-Activated Protein Kinase Activity, and Glycogen Metabolism and Mass in Male Versus Female Hypothalamic Primary Astrocyte Cultures ASN Neuro 2020-11-12 [PMID: 33176438] (Western Blot, Rat)

Bheemanapally K, Alhamyani A, Alshamrani AA et al. Hypoglycemic and posthypoglycemic patterns of glycogen phosphorylase isoform expression in the ventrolateral ventromedial hypothalamic nucleus: impact of sex and estradiol Acta Neurobiologiae Experimentalis 2021-01-01 [PMID: 34170267] (Western Blot, Rat)

Uddin MM, Ali MH, Mahmood ASMH et al. Glycogen phosphorylase isoenzyme GPbb versus GPmm regulation of ventromedial hypothalamic nucleus glucoregulatory neurotransmitter and counter-regulatory hormone profiles during hypoglycemia: Role of L-lactate and octadecaneuropeptide Molecular and cellular neurosciences 2023-05-31 [PMID: 37268282]

Briski KP, Napit PR, Alhamyani A et al. Sex-Dimorphic Octadecaneuropeptide (ODN) Regulation of Ventromedial Hypothalamic Nucleus Glucoregulatory Neuron Function and Counterregulatory Hormone Secretion ASN neuro 2023-05-17 [PMID: 37194319] (WB, Rat)

Briski KP, Mahmood ASMH, Uddin MM et al. Effects of Ventromedial Hypothalamic Nucleus (VMN) Aromatase Gene Knockdown on VMN Glycogen Metabolism and Glucoregulatory Neurotransmission Biology 2023-02-03 [PMID: 36829519] (Western Blot, Rat)

Pasula MB, Napit PR, Alhamyani A et al. Sex Dimorphic Glucose Transporter-2 Regulation of Hypothalamic Astrocyte Glucose and Energy Sensor Expression and Glycogen Metabolism Neurochemical research 2022-09-29 [PMID: 36173588]

Briski K, Napit P, Haider Ali M et al. Hindbrain Catecholamine Regulation of Ventromedial Hypothalamic Nucleus Glycogen Metabolism during Acute Versus Recurring Insulin-Induced Hypoglycemia in Male versus Female Rat Endocr Metab Sci 2021-05-17 [PMID: 33997825]

Alhamyani A, Napit PR, Bheemanapally K et al. Glycogen phosphorylase isoform regulation of glucose and energy sensor expression in male versus female rat hypothalamic astrocyte primary cultures Molecular and cellular endocrinology 2022-06-16 [PMID: 35718260]

Briski, K P & Mandal, S K. Hindbrain metabolic deficiency regulates ventromedial hypothalamic nucleus glycogen metabolism and glucose regulatory signaling. Acta Neurobiol Exp (Wars) 2020-03-28 [PMID: 32214275] (WB, Mouse)

Uddin MM, Ibrahim MMH, Briski KP Sex-dimorphic neuroestradiol regulation of ventromedial hypothalamic nucleus glucoregulatory transmitter and glycogen metabolism enzyme protein expression in the rat BMC Neurosci 2020-11-25 [PMID: 33238883] (WB, Human)

More publications at <http://www.novusbio.com/NBP1-32799>



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NBP2-24891	Rabbit IgG Isotype Control

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