Product Datasheet

nNOS Antibody - BSA Free
NBP1-39681

Unit Size: 100 ul

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

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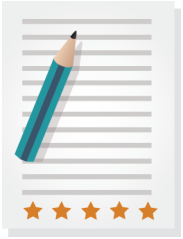
Publications: 21

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NBP1-39681

Updated 9/9/2025 v.20.1



NBP1-39681

nNOS Antibody - BSA Free

Product Information

Unit Size	100 ul
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS, pH 7.2, containing 50% glycerol

Product Description

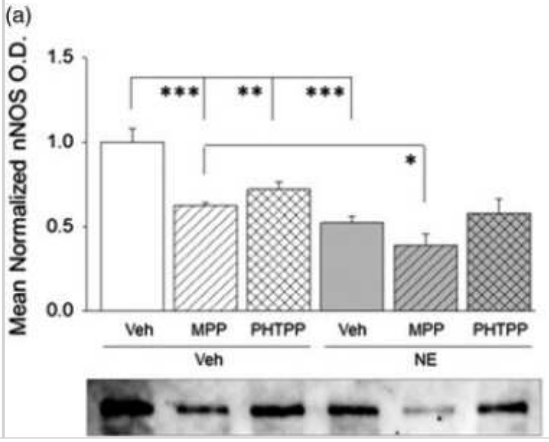
Description	Novus Biologicals Rabbit nNOS Antibody - BSA Free (NBP1-39681) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-nNOS Antibody: Cited in 21 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	4842
Gene Symbol	NOS1
Species	Human, Mouse, Rat, Bat, Canine, Equine, Primate, Monkey, Rabbit
Reactivity Notes	Predicted cross-reactivity based on sequence identity: Gorilla (100%), Marmoset (100%), Xenopus (83%), Zebrafish (83%).
Specificity/Sensitivity	Human nNOS amino acids 1422-1433 (ESKKDTDEVFSS)1,2
Immunogen	Human nNOS amino acids 1422-1433 (ESKKDTDEVFSS).

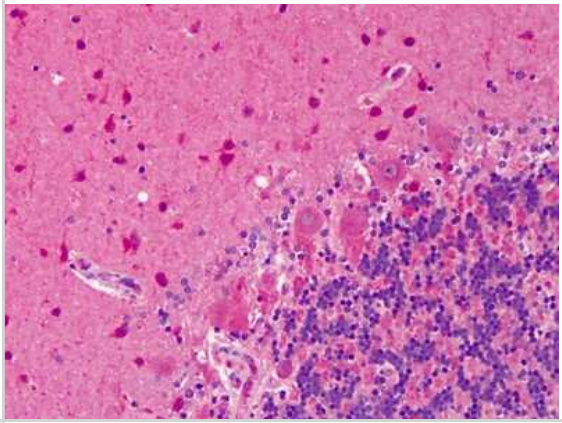
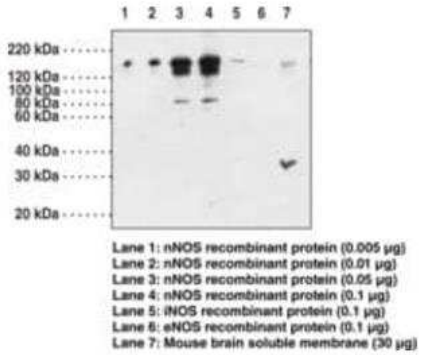
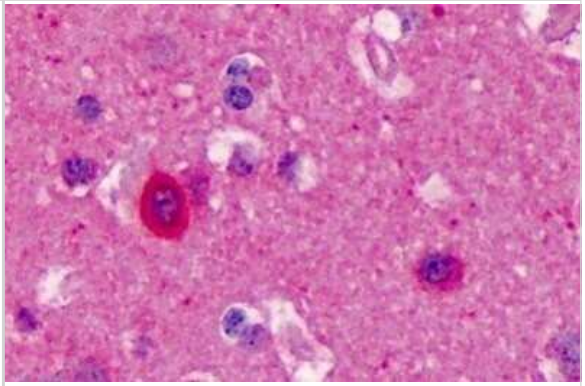
Product Application Details

Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunoprecipitation, Immunocytochemistry
Recommended Dilutions	Western Blot 1:100-1:2000, Immunohistochemistry 5 ug/ml, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 5 ug/ml, Immunocytochemistry 1:10 - 1:500
Application Notes	.

Images

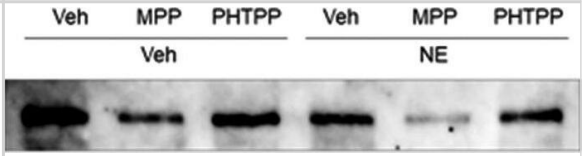
Western Blot: nNOS Antibody [NBP1-39681] - Effects of ER alpha and ER beta Antagonists on NE Regulation of VMN nNOS Protein Expression. Micropunch-dissected VMN tissue was obtained from groups of ovariectomized, estradiol-replaced female rats pretreated by intra-VMN delivery of MPP, PHTPP, or vehicle (Veh) prior to NE administration for Western blot analysis of neuronal nitric oxide synthase (nNOS) - Panel 2A,F(5, 12)=12.67,p<.0001 - protein expression. Data depict mean normalized protein optical density (O.D.) values+/-SEMfor groups of rats (n=6 per group) infused with Veh (white bars) or NE (gray bars) after delivery of Veh (solid bars), MPP (diagonal-striped bars), or PHTPP (cross-hatched bars) administration. *p<.05; **p<.01; ***p<.001. Image collected and cropped by CiteAb from the following publication (//pubmed.ncbi.nlm.nih.gov/32233668/) licensed under a CC-BY license.



Immunohistochemistry-Paraffin: nNOS Antibody [NBP1-39681] - Analysis of anti-nNOS / NOS1 antibody with human brain, cerebellum at concentration 5 ug/ml.	
Western Blot: nNOS Antibody [NBP1-39681]	
Immunohistochemistry-Paraffin: nNOS Antibody [NBP1-39681] - Analysis of anti-nNOS / NOS1 antibody with human brain, cortex at concentration 5 ug/ml.	

Western Blot: nNOS Antibody [NBP1-39681] - Laser-Catapult Microdissection of Immunolabeled ventromedial hypothalamic nucleus (VMN) GABA or Nitrergic Neurons: Western Blot Confirmation of Accuracy of Immunocytochemical Identification of Neurotransmitter Phenotype. VMN neurons were identified in situ for glutamate decarboxylase65/67 (GAD65/67)- (top row, Panel 1A) or neuronal nitric oxide (nNOS)-immunoreactivity (-ir) (bottom row, Panel 2A); representative GAD65/67- or nNOS-ir-positive neurons are indicated by blue arrows. Areas shown in Panels 1A & 2A were rephotographed after positioning of a continuous laser track (depicted in green) around a single GAD65/67-ir (Panel 1B, blue arrow) or nNOS-ir neuron (Panel 2B, blue arrow) & subsequent ejection of the encircled cell by laser pulse (Panels 1C & 2C). Note that this microdissection technique causes negligible destruction of surrounding tissue & minimal inclusion of adjacent tissue. Western blot analysis of triplicate cell lysate pools produced from immunolabeled GAD65/67 (Panel 1D) or nNOS (Panel 2D) neurons from Veh/Veh animals showed that these proteins are expressed in VMN neuron samples obtained by combinatory immunocytochemistry/laser-catapult microdissection. 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.

Western Blot: nNOS Antibody [NBP1-39681] - Effects of ERα & ERβ Antagonists on NE Regulation of VMN GAD & nNOS Protein Expression. Micropunch-dissected VMN tissue was obtained from groups of ovariectomized, estradiol-replaced female rats pretreated by intra-VMN delivery of MPP, PHTPP, or vehicle (Veh) prior to NE administration for Western blot analysis of neuronal nitric oxide synthase (nNOS)—Panel 2A, $F(5, 12) = 12.67$, $p < .0001$—or glutamate decarboxylase65/67 (GAD)—Panel 2B, $F(5, 12) = 7.13$, $p = .0003$—protein expression. Data depict mean normalized protein optical density (O.D.) values ± SEM for groups of rats ($n = 6$ per group) infused with Veh (white bars) or NE (gray bars) after delivery of Veh (solid bars), MPP (diagonal-striped bars), or PHTPP (cross-hatched bars) administration. *$p < .05$; **$p < .01$; ***$p < .001$. 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.



Publications

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] (Western Blot, Rat)

Ibrahim MMH, Alhamami HN, Briski KP. Norepinephrine Regulation of Ventromedial Hypothalamic Nucleus Metabolic Transmitter Biomarker and Astrocyte Enzyme and Receptor Expression: Impact of 5' AMP-Activated Protein Kinase. Brain Res. 2019-01-07 [PMID: 30629946] (Western Blot, Rat)

Roy SC, Sapkota S, Pasula MB et al. Diazepam Binding Inhibitor Control of Eu- and Hypoglycemic Patterns of Ventromedial Hypothalamic Nucleus Glucose-Regulatory Signaling ASN neuro 2023-11-30 [PMID: 38031405] (IHC-Fr, Rat)

Bheemanapally K, Briski KP Differential G-Protein-Coupled Estrogen Receptor-1 Regulation of Counter-Regulatory Transmitter Marker and 5'-AMP-Activated Protein Kinase Expression in Ventrolateral versus Dorsomedial Ventromedial Hypothalamic Nucleus Neuroendocrinology 2023-09-12 [PMID: 37699381]

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, IHC-Fr, 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)

SuSnjara P, Mihaljevic Z, Stupin A et al. Consumption of nutritionally enriched hen eggs enhances endothelium-dependent vasodilation via cyclooygenases metabolites in healthy young persons - A randomized study Research Square 2022-11-02 [PMID: 37049437] (WB, Human)

Roy SC, Napit PR, Pasula MB et al. G-Protein-Coupled Lactate Receptor GPR81 Control of VMNvl Glucoregulatory Neurotransmitter and 5'-AMP-Activated Protein Kinase Expression American journal of physiology. Regulatory, integrative and comparative physiology 2022-11-21 [PMID: 36409024]

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] (Rat)

Bheemanapally K, Napit PR, Ibrahim MMH, Briski KP UHPLC-electrospray ionization-mass spectrometric analysis of brain cell-specific glucogenic and neurotransmitter amino acid content Scientific reports 2021-08-09 [PMID: 34373537] (Rat)

Bheemanapally K, Ibrahim MMH, Alshamrani A, Briski KP Ventromedial Hypothalamic Nucleus Glycogen Regulation of Metabolic-Sensory Neuron AMPK and Neurotransmitter Expression: Role of Lactate American journal of physiology. Regulatory, integrative and comparative physiology 2021-04-07 [PMID: 33825506]

Briski KP, Ali MH, Napit PR et al. Sex differences in ventromedial hypothalamic nucleus glucoregulatory transmitter biomarker protein during recurring insulin-induced hypoglycemia Brain structure & function 2021-02-12 [PMID: 33580322]

More publications at http://www.novusbio.com/NBP1-39681

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NBP2-24891	Rabbit IgG Isotype Control

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