# **Product Datasheet**

# alpha-2A Adrenergic R/ADRA2A Antibody NBP2-22452

Unit Size: 100 uL

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

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**Publications: 4** 

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#### NBP2-22452

alpha-2A Adrenergic R/ADRA2A Antibody

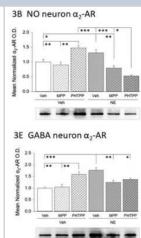
Product Information	
100 uL	
0.6 mg/ml	
Store at -20C. Avoid freeze-thaw cycles.	
Polyclonal	
0.05% Sodium Azide	
IgG	
Immunogen affinity purified	
PBS and 1 mg/ml BSA.	

<b>Product Description</b>	
Description	Novus Biologicals Rabbit alpha-2A Adrenergic R/ADRA2A Antibody (NBP2-22452) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and Simple Western. Anti-alpha-2A Adrenergic R/ADRA2A Antibody: Cited in 4 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	150
Gene Symbol	ADRA2A
Species	Human, Mouse, Rat
Reactivity Notes	This antibody detects alpha-2A adrenergic receptor (A2AAR) from human, rat and mouse tissues.
Immunogen	Synthetic peptide corressponding to residues R(218) I Y Q I A K R R T R V P P S R R G(235) of the 3rd intracellular loop of human A2AAR.

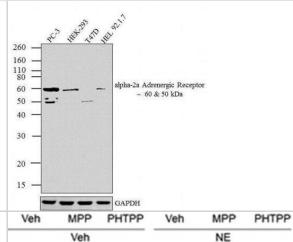
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500, Simple Western, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:1000

#### **Images**

Western Blot: alpha-2A Adrenergic R/ADRA2A Antibody [NBP2-22452] - Pooled lysates of laser-microdissected VMN nNOS- or GAD-immunopositive neurons from groups of female rats pretreated with V versus ER alpha or beta antagonist prior to intra-VMN V or NE infusion were analyzed by Western blot alpha-2A Adrenergic R/ADRA2A protein expression. Nitrergic neuron alpha2-,F(5, 12)=16.50,p<.0001 protein profiles are depicted in Panels 3B; GABAergic neuron alpha2-,F(5, 12)=10.47,p<.0001 protein profiles are presented in Panels 3E. Data show mean normalized protein O.D. measures+/-SEMfor the following treatment groups: Veh/Veh (n=6), MPP/Veh (n=6), PHTPP/Veh (n=6), Veh/NE (n=6), MPP/NE (n=6), and PHTPP/NE (n=6). \*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.



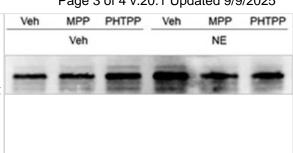
Western Blot: alpha-2A Adrenergic R/ADRA2A Antibody [NBP2-22452] - Analysis was performed on whole cell extracts (30 ug lysate) of PC-3 (Lane 1), HEK-293 (Lane 2), T47D (Lane 3) and HEL 92.1.7 (lane 4). The blots were probed with Anti-alpha-2a Adrenergic Receptor Rabbit Polyclonal Antibody.



Western Blot: alpha-2A Adrenergic R/ADRA2A Antibody [NBP2-22452] -Effects of MPP Versus PHTPP on NE Regulation of VMN Nitrergic & GABA Neuron Adrenergic Receptor Protein Expression. Pooled lysates of laser-microdissected VMN nNOS- or GAD-immunopositive neurons from groups of female rats pretreated with V versus ERα or -β antagonist prior to intra-VMN V or NE infusion were analyzed by Western blot for alpha1-  $(\alpha 1-)$ , alpha2-  $(\alpha 2-)$ , or beta1-  $(\beta 1-)$  AR protein expression. Nitrergic neuron  $\alpha 1$ -, F(5, 12) = 10.51, p = .0005;  $\alpha 2$ -, F(5, 12) = 16.50, p < .0001; &  $\beta$ 1-, F(5, 12) = 11.72, p = .0003 protein profiles are depicted in Panels 3A to C; GABAergic neuron  $\alpha 1$ -, F(5, 12) = 5.52, p = .007;  $\alpha 2$ -, F (5, 12) = 10.47, p < .0001; &  $\beta1$ -, F(5, 12) = 12.21, p = .0002 protein profiles are presented in Panels 3D to F. Data show mean normalized protein O.D. measures ± SEM for the following treatment groups: Veh/Veh (solid white bars, n = 6), MPP/Veh (diagonal-striped white bars, n = 6), PHTPP/Veh (cross-hatched white bars, n = 6), Veh/NE (solid gray bars, n = 6), MPP/NE (diagonal-striped gray bars, n = 6), & PHTPP/NE (cross-hatched gray bars, n = 6). \*p < .05; \*\*p < .01; \*\*\*p < .001.  $\alpha$ 1-AR = alpha1 adrenergic receptor; α2-AR = alpha2 adrenergic receptor; β1-AR = beta1 adrenergic receptor: MPP = 1.3-Bis(4-hvdroxyphenyl)-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.



Western Blot: alpha-2A Adrenergic R/ADRA2A Antibody [NBP2-22452] -Effects of MPP Versus PHTPP on NE Regulation of VMN Nitrergic & GABA Neuron Adrenergic Receptor Protein Expression. Pooled lysates of laser-microdissected VMN nNOS- or GAD-immunopositive neurons from groups of female rats pretreated with V versus ERα or -β antagonist prior to intra-VMN V or NE infusion were analyzed by Western blot for alpha1- ( $\alpha$ 1-), alpha2- ( $\alpha$ 2-), or beta1- ( $\beta$ 1-) AR protein expression. Nitrergic neuron  $\alpha 1$ -, F(5, 12) = 10.51, p = .0005;  $\alpha 2$ -, F(5, 12) = 16.50, p < .0001; &  $\beta$ 1-, F(5, 12) = 11.72, p = .0003 protein profiles are depicted in Panels 3A to C; GABAergic neuron  $\alpha 1$ -, F(5, 12) = 5.52, p = .007;  $\alpha 2$ -, F (5, 12) = 10.47, p < .0001; &  $\beta1$ -, F(5, 12) = 12.21, p = .0002 protein profiles are presented in Panels 3D to F. Data show mean normalized protein O.D. measures ± SEM for the following treatment groups: Veh/Veh (solid white bars, n = 6), MPP/Veh (diagonal-striped white bars, n = 6), PHTPP/Veh (cross-hatched white bars, n = 6), Veh/NE (solid gray bars, n = 6), MPP/NE (diagonal-striped gray bars, n = 6), & PHTPP/NE (cross-hatched gray bars, n = 6). \*p < .05; \*\*p < .01; \*\*\*p < .001.  $\alpha$ 1-AR = alpha1 adrenergic receptor; α2-AR = alpha2 adrenergic receptor; β1-AR = beta1 adrenergic receptor; 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**

Guerra-Ojeda S, Marchio P, Suarez A et Al. Levamisole Impairs Vascular Function by Blocking ?-Adrenergic Receptors and Reducing NO Bioavailability in Rabbit Renal Artery Cardiovasc Toxicol 2024-06-14 [PMID: 38877381]

Mahmood A S M H, Napit P R et al. Estrogen Receptor Involvement in Noradrenergic Regulation of Ventromedial Hypothalamic Nucleus Glucoregulatory Neurotransmitter and Stimulus-Specific Glycogen Phosphorylase Enzyme Isoform Expression. ASN Neuro 2020-03-04 [PMID: 32233668] (WB, Rat)

Yang Z, Ma S, Cao R et al. CD49fhigh Defines A Distinct Skin Mesenchymal Stem Cell Population Capable of Hair Follicle Epithelial Cell Maintenance J. Invest. Dermatol. 2019-09-05 [PMID: 31494092]

Uddin MM, Mahmood ASMH, Ibrahim MMH, Briski KP Sex-Dimorphic Estrogen Receptor Regulation of Ventromedial Hypothalamic Nucleus Glucoregulatory Neuron Adrenergic Receptor Expression in Hypoglycemic Male and Female Rats Brain Res. 2019-06-29 [PMID: 31265816] (WB, Rat)





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## **Products Related to NBP2-22452**

HAF008 Goat anti-Rabbit IgG Secondary Antibody [HRP]

NB7160 Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]

NBP2-24891 Rabbit IgG Isotype Control

H00000150-G01 Recombinant Human alpha-2A Adrenergic R/ADRA2A Protein

#### Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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