

Product Datasheet

Adenosine A1R Antibody - BSA Free NB300-549

Unit Size: 100 uL

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

www.novusbio.com



technical@novusbio.com

Reviews: 1 Publications: 12

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:
www.novusbio.com/NB300-549

Updated 10/23/2024 v.20.1

**Earn rewards for product
reviews and publications.**

Submit a publication at www.novusbio.com/publications

Submit a review at www.novusbio.com/reviews/destination/NB300-549



NB300-549

Adenosine A1R Antibody - BSA Free

Product Information

Unit Size	100 uL
Concentration	1 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS
Target Molecular Weight	37 kDa

Product Description

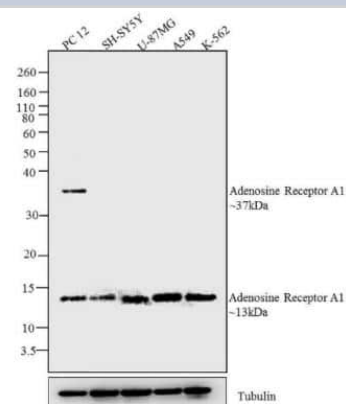
Host	Rabbit
Gene ID	134
Gene Symbol	ADORA1
Species	Human, Mouse, Rat
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 18948751). Rat from customer review.
Specificity/Sensitivity	Detects Adenosine Receptor A1. This does not detect other AR subtypes.
Immunogen	Synthetic peptide corresponding to residues C(309) Q P K P P I D E D L P E E K A E D(326) of rat Adenosine Receptor A1.

Product Application Details

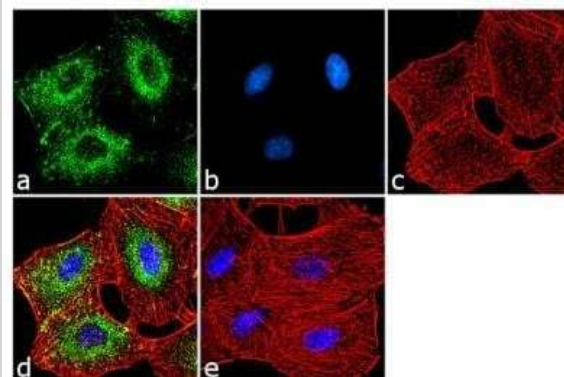
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:500, Flow Cytometry 3 - 5 ug / 10 ⁶ cells, Immunohistochemistry 1:10 - 1:500, Immunocytochemistry/ Immunofluorescence 2 ug/ml, Immunohistochemistry-Paraffin 1:50 - 1:200, Immunohistochemistry-Frozen
Application Notes	Adenosine A1R antibody validated for ICC/IF from a verified customer review. Use in IHC- Frozen reported in scientific literature (PMID: 24016034).

Images

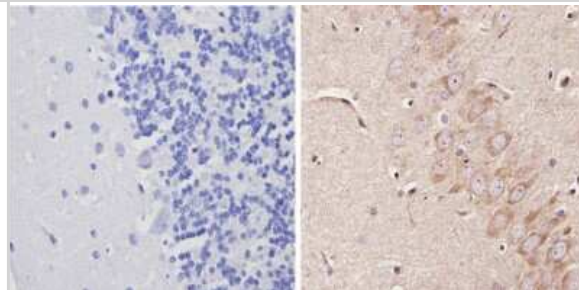
Western Blot: Adenosine A1R Antibody [NB300-549] - Analysis was performed on whole cell extracts (30 ug lysate) of PC 12 (Lane 1), SH-SY5Y (lane 2), U-87MG (lane 3), A549 (Lane 4) and K-562 (lane 5).



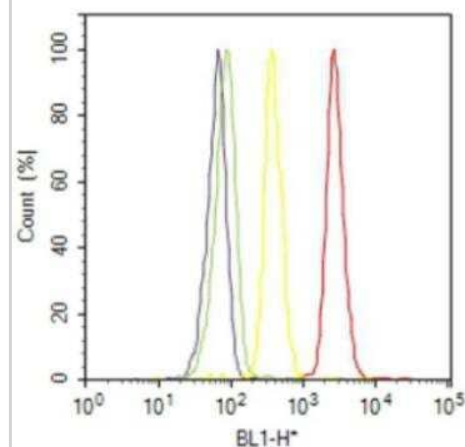
Immunocytochemistry/Immunofluorescence: Adenosine A1R Antibody [NB300-549] - Analysis of Adenosine Receptor A1 was done on 70% confluent log phase HeLa cells.



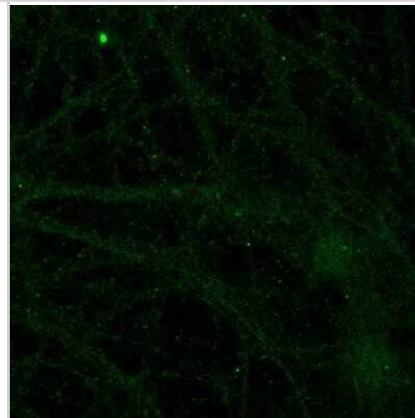
Immunohistochemistry-Paraffin: Adenosine A1R Antibody [NB300-549] - Analysis showing positive staining in the cytoplasm of Rat brain tissue (right) compared with a negative control in the absence of primary antibody (left).



Flow Cytometry: Adenosine A1R Antibody [NB300-549] - Analysis of Adenosine Receptor A1 was done on A549 cells. Cells were fixed with 70% ethanol for 10 minutes, permeabilized with 0.25% Triton (R) X-100 for 20 minutes, and blocked with 5% BSA for 30 minutes at room temperature. Cells were labeled with Adenosine Receptor A1 Rabbit Polyclonal Antibody (PA1041A, red histogram) or with rabbit isotype control (yellow histogram) at 3-5 ug/million cells in 2.5% BSA. After incubation at room temperature for 2 hours, the cells were labeled with Alexa Fluor (R) 488 Goat Anti-Rabbit Secondary Antibody (A11008) at a dilution of 1:400 for 30 minutes at room temperature. The representative 10,000 cells were acquired and analyzed for each sample using an Attune (R) Acoustic Focusing Cytometer. The purple histogram represents unstained control cells and the green histogram represents no-primary-antibody control.



Immunocytochemistry/Immunofluorescence: Adenosine A1R Antibody [NB300-549] - Dissociated rat hippocampal culture. Image courtesy of Janosch Heller, University College London.



Publications

- See LP, Sripinun P, Lu W et al. Increased Purinergic Signaling in Human Dental Pulps With Inflammatory Pain is Sex-Dependent The journal of pain 2023-11-11 [PMID: 37956743]
- Dragi? M, Mitrovi? N, Ad?i? M et al. Microglial- and Astrocyte-Specific Expression of Purinergic Signaling Components and Inflammatory Mediators in the Rat Hippocampus During Trimethyltin-Induced Neurodegeneration ASN Neuro 2021-09-27 [PMID: 34569324]
- Dragi? M, Zeljkovi? M, Stevanovi? I et al. Downregulation of CD73/A(2A)R-Mediated Adenosine Signaling as a Potential Mechanism of Neuroprotective Effects of Theta-Burst Transcranial Magnetic Stimulation in Acute Experimental Autoimmune Encephalomyelitis Brain Sciences 2021-06-01 [PMID: 34205965] (Immunohistochemistry)
- Schubert C, Schulz K, Tr?ger S et al. Neuronal Adenosine A(1) Receptor is Critical for Olfactory Function but Unable to Attenuate Olfactory Dysfunction in Neuroinflammation Frontiers in Cellular Neuroscience 2022-06-30 [PMID: 35846561] (Immunocytochemistry/ Immunofluorescence)
- Pang L, Ng KT, Liu J et al. Plasmacytoid dendritic cells recruited by HIF-1 alpha /eADO/ADORA1 signaling induce immunosuppression in hepatocellular carcinoma Cancer letters 2021-09-16 [PMID: 34536555] (FLOW, Human)
- Kutryb-Zajac B, Jablonska P, Serocki M et al. Extracellular Adenine Nucleotide and Adenosine Metabolism in Calcific Aortic Valve Disease. bioRxiv 2018-08-28 [PMID: 32126886] (ICC/IF, Human)
- Kutryb-Zajac B, Mierzejewska P, Sucajty-Szulc E et al. Inhibition of LPS-stimulated ecto-adenosine deaminase attenuates endothelial cell activation J. Mol. Cell. Cardiol. 2019-01-11 [PMID: 30641086] (ICC/IF, Human)
- Hackett TA. Adenosine A1 Receptor mRNA Expression by Neurons and Glia in the Auditory Forebrain. Anat Rec (Hoboken). 2018-10-12 [PMID: 30315630] (IF/IHC, Mouse)
- Ren ZH, Lin CZ, Cao W et al. CD73 is associated with poor prognosis in HNSCC. Oncotarget. 2016-09-20 [PMID: 27557512] (IF/IHC, WB, Human)
- Yamaguchi D, Terayama R, Omura S et al. Effect of adenosine A1 receptor agonist on the enhanced excitability of spinal dorsal horn neurons after peripheral nerve injury. Int J Neurosci. 2013-10-14 [PMID: 24016034] (IHC-Fr, Rat)
- Kimura M, Saitoh N, Takahashi T et al. Adenosine A(1) receptor-mediated presynaptic inhibition at the calyx of Held of immature rats. J Physiol. 2003-12-01 [PMID: 12963795]
- Yu, W, Zacharia, L C, Jackson, E K, Apodaca, G. Adenosine receptor expression function in bladder uroepithelium, . 291, C254-265. 2006-01-01 [PMID: 16571869]





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NB300-549

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-58443PEP	Adenosine A1R Recombinant Protein Antigen

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.

For more information on our 100% guarantee, please visit www.novusbio.com/guarantee

Earn gift cards/discounts by submitting a review: www.novusbio.com/reviews/submit/NB300-549

Earn gift cards/discounts by submitting a publication using this product:
www.novusbio.com/publications

