

Product Datasheet

Adenosine A1R Antibody - BSA Free NB300-549

Unit Size: 100 uL

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

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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

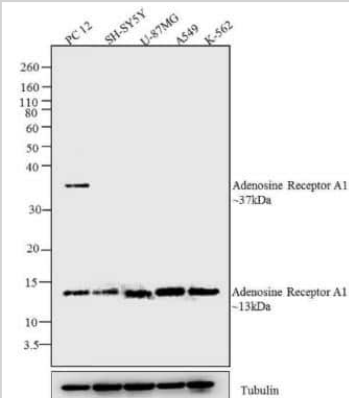
Product Description	
Description	Novus Biologicals Rabbit Adenosine A1R Antibody - BSA Free (NB300-549) is a polyclonal antibody validated for use in IHC, WB, Flow and ICC/IF. Anti-Adenosine A1R Antibody: Cited in 13 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	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, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen
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).

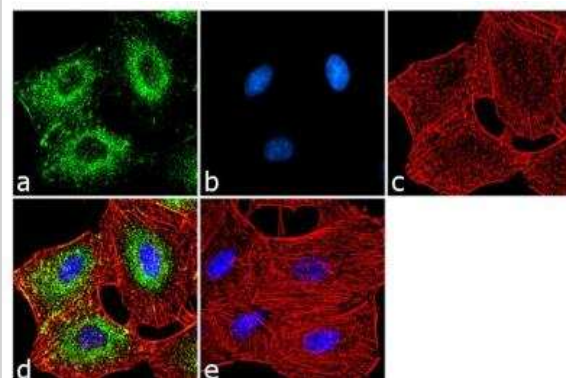


Images

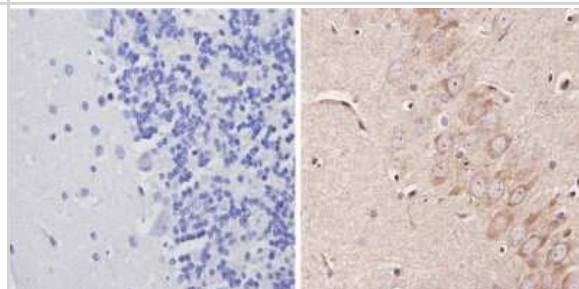
Western Blot: Adenosine A1R Antibody [NB300-549] - Analysis was performed on whole cell extracts (30 ug lysate) of PC 12 (Lane 1), SH-SY5Y (lane 2), U-87MG (lane 3), A549 (Lane 4) and K-562 (lane 5).



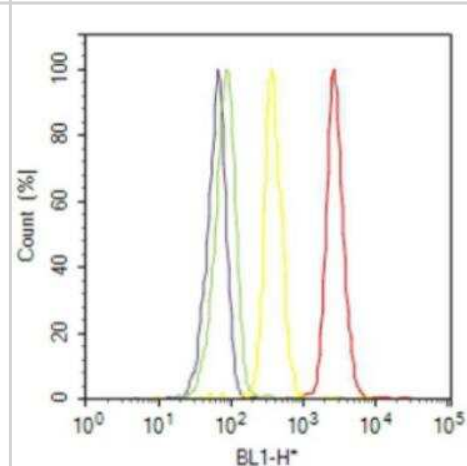
Immunocytochemistry/Immunofluorescence: Adenosine A1R Antibody [NB300-549] - Analysis of Adenosine Receptor A1 was done on 70% confluent log phase HeLa cells.



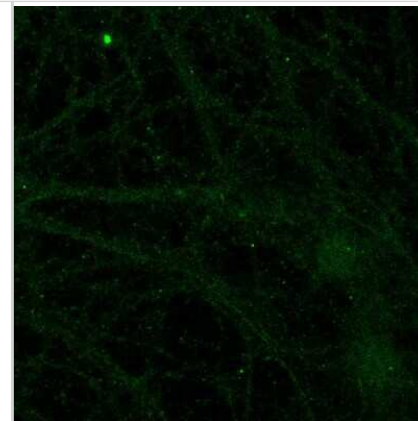
Immunohistochemistry-Paraffin: Adenosine A1R Antibody [NB300-549] - Analysis showing positive staining in the cytoplasm of Rat brain tissue (right) compared with a negative control in the absence of primary antibody (left).



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

Fang J, Xu Y, Qiu M et al. Astrocyte inhibition and PV interneuron activation: key mechanisms in electroacupuncture's effect on pain-anxiety comorbidity Chinese Medicine 2025-09-02 [PMID: 40890793]

Dragić M, Mitrović N, Adžić 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]

Schubert C, Schulz K, Tröger 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]

Dragić M, Zeljković M, Stevanović 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]

Dragić M, Stekić A, Zeljković M, Zarić Kontić M et al. Altered Topographic Distribution and Enhanced Neuronal Expression of Adenosine-Metabolizing Enzymes in Rat Hippocampus and Cortex from Early to late Adulthood Neurochem Res 2022-03-23 [PMID: 35320461]

See LP, Sripinun P, Lu W et al. Increased Purinergic Signaling in Human Dental Pulp With Inflammatory Pain is Sex-Dependent The journal of pain 2023-11-11 [PMID: 37956743]

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, Sucajtys-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)

More publications at <http://www.novusbio.com/NB300-549>



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Products Related to NB300-549

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

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