

Product Datasheet

Adenosine A2aR Antibody

NB300-597

Unit Size: 100 uL

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

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NB300-597

Adenosine A2aR Antibody

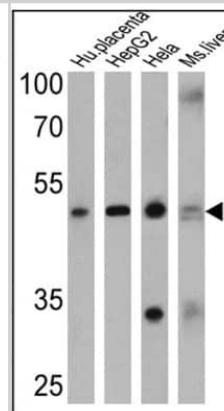
Product Information	
Unit Size	100 uL
Concentration	0.69 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS with 1 mg/ml BSA
Target Molecular Weight	45 kDa

Product Description	
Host	Rabbit
Gene ID	135
Gene Symbol	ADORA2A
Species	Human, Mouse, Rat, Canine
Specificity/Sensitivity	Detects adenosine receptor A2a. This does not detect other AR subtypes.
Immunogen	Synthetic peptide corresponding to residues E(373) S H G D M G L P D V E L L S H E L K(391) of canine A2aAR.

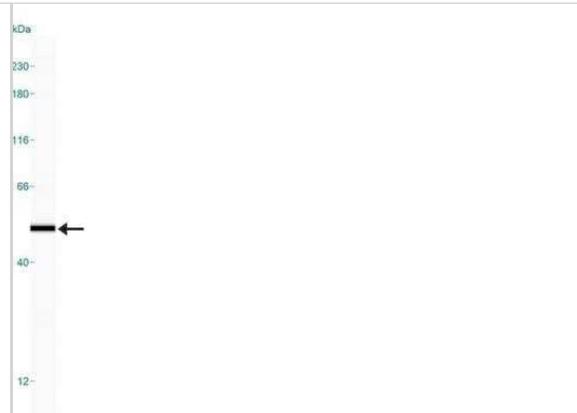
Product Application Details	
Applications	Western Blot, Simple Western, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000, Simple Western 1:20, Flow Cytometry, Immunohistochemistry 1:10-1:500, Immunocytochemistry/ Immunofluorescence 1:10 - 1:100, Immunoprecipitation 1:10-1:500, Immunohistochemistry-Paraffin 1:20-1:200
Application Notes	Use in Flow reported in scientific literature (PMID:34536555). WB: Detects an approx. 45 kDa protein from canine striatum representing A2aAR. See Simple Western Antibody Database for Simple Western validation: tested in HeLa lysate (0.5 mg/ml); antibody dilution of 1:20; separated by size; detects a band at 51 kDa

Images

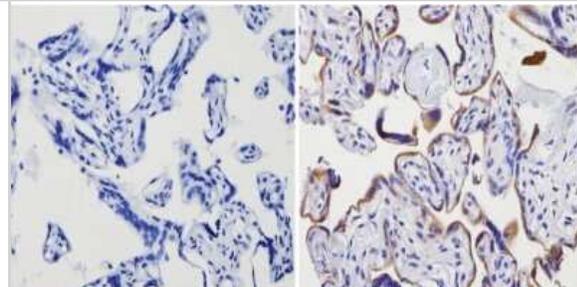
Western Blot: Adenosine A2aR Antibody [NB300-597] - Analysis of 25 ug of human placenta (lane 1), HepG2 (lane 2), HeLa (lane 3) and mouse liver (lane 4) cell lysates.



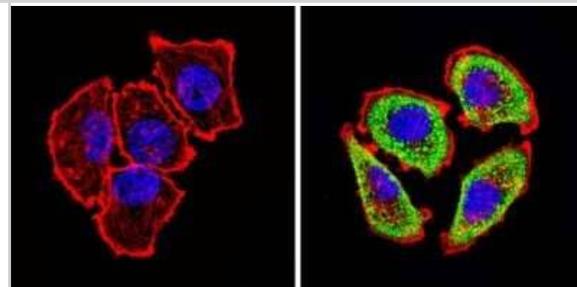
Simple Western: Adenosine A2aR Antibody [NB300-597] - Simple Western lane view shows a specific band for Adenosine A2a R in 0.5 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



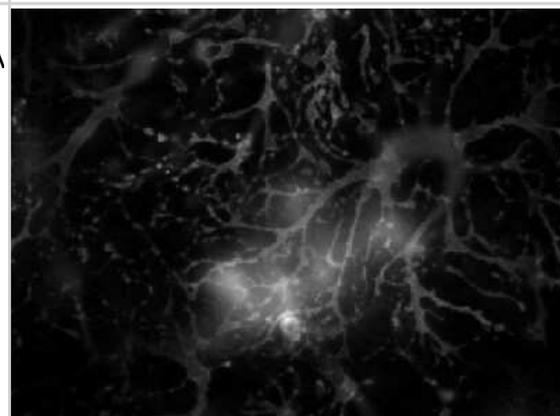
Immunohistochemistry-Paraffin: Adenosine A2aR Antibody [NB300-597] - Analysis showing positive staining in the cytoplasm and membrane of Human placenta tissue (right) compared with a negative control in the absence of primary antibody (left).



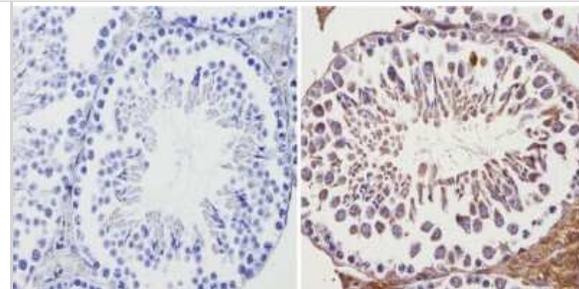
Immunocytochemistry/Immunofluorescence: Adenosine A2aR Antibody [NB300-597] - Analysis of Adenosine Receptor A2a (green) showing staining in the cytoplasm of U251 cells (right) compared to a negative control without primary antibody (left). F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI



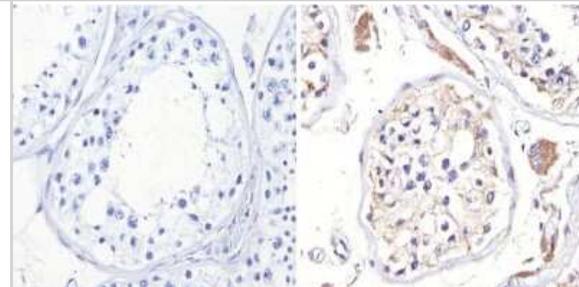
Immunocytochemistry/Immunofluorescence: Adenosine A2aR Antibody [NB300-597] - Mixed cortical rat neurons culture (21 DIV) stained for A2A labelled with Alexa647. The staining visualised the astrocytes in culture. This image was submitted via customer Review.



Immunohistochemistry-Paraffin: Adenosine A2aR Antibody [NB300-597]
 - Staining in the cytoplasm and membrane of Mouse testis tissue (right) compared with a negative control in the absence of primary antibody (left).



Immunohistochemistry-Paraffin: Adenosine A2aR Antibody [NB300-597]
 - Analysis showing positive staining in the cytoplasm and membrane of Human testis tissue (right) compared with a negative control in the absence of primary antibody (left).



Publications

Du H, Li CH, Gao RB et al. Inhibition of the interaction between microglial adenosine 2A receptor and NLRP3 inflammasome attenuates neuroinflammation posttraumatic brain injury CNS neuroscience & therapeutics 2023-08-11 [PMID: 37564004]

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)

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)



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Products Related to NB300-597

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
H00000135-Q01-10ug	Recombinant Human Adenosine A2aR GST (N-Term) 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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