

# 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**

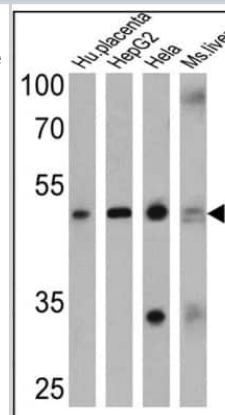
Product Information	
Unit Size	100 uL
Concentration	0.69 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS with 1 mg/ml BSA
Target Molecular Weight	45 kDa

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.

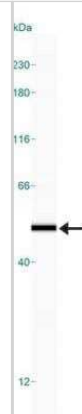
Product Application Details	
Applications	Western Blot, Simple Western, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation
Recommended Dilutions	Western Blot 1:1000, Simple Western 1:20, Flow Cytometry, Immunohistochemistry 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 <a href="#">Simple Western Antibody Database</a> 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**

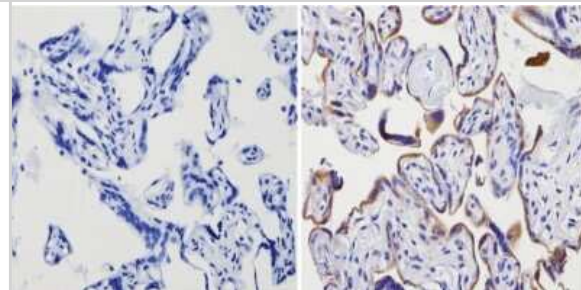
Western Blot: Adenosine A2aR Antibody [NB300-597] - Analysis of 25 ug of human placenta (lane 1), HepG2 (lane 2), Hela (lane 3) and mouse liver (lane 4) cell lysates.



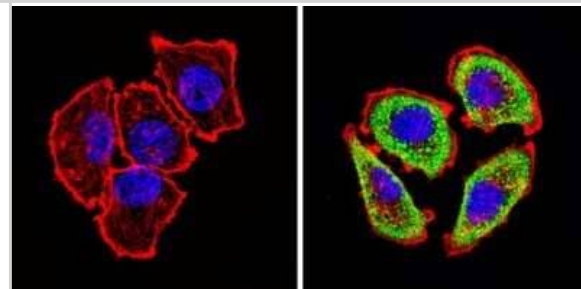
Simple Western: Adenosine A2aR Antibody [NB300-597] - Simple Western lane view shows a specific band for Adenosine A2a R in 0.5 mg/ml of HeLa lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



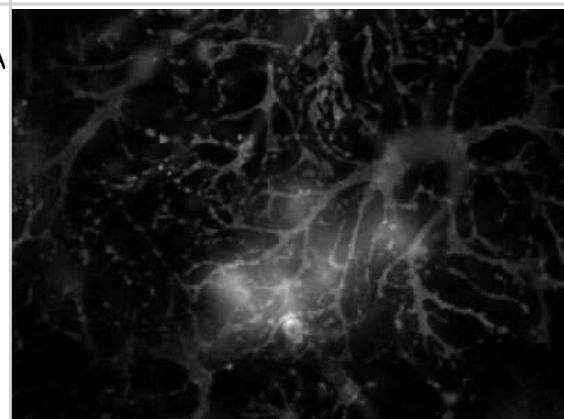
Immunohistochemistry-Paraffin: Adenosine A2aR Antibody [NB300-597] - Analysis showing positive staining in the cytoplasm and membrane of Human placenta tissue (right) compared with a negative control in the absence of primary antibody (left).



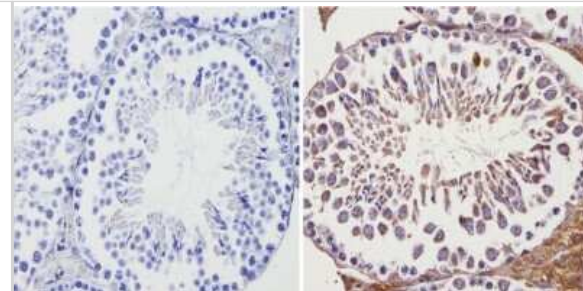
Immunocytochemistry/Immunofluorescence: Adenosine A2aR Antibody [NB300-597] - Analysis of Adenosine Receptor A2a (green) showing staining in the cytoplasm of U251 cells (right) compared to a negative control without primary antibody (left). F-actin (red) was stained with a fluorescent red phalloidin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



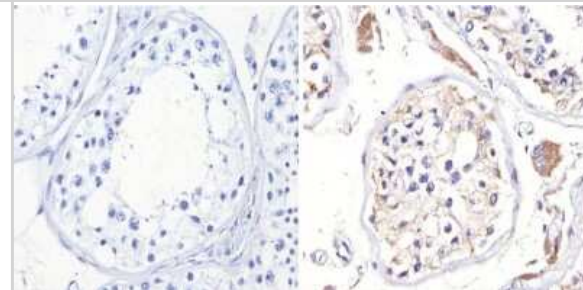
Immunocytochemistry/Immunofluorescence: Adenosine A2aR Antibody [NB300-597] - Mixed cortical rat neurons culture (21 DIV) stained for A2A labelled with Alexa647. The staining visualised the astrocytes in culture. This image was submitted via customer Review.



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**

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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

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### **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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