

ADORA1 Polyclonal Antibody

Catalog NumberPA5-27075

Product data sheet

Details	
Size	100 µL
Host/Isotope	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Immunogen	Synthetic peptide corresponding to a region within amino acids 162 and 257 of Human Adenosine A1 Receptor
Conjugate	Unconjugated
Form	Liquid
Concentration	1 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7, with 20% glycerol
Contains	0.01% thimerosal
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

Species Reactivity	
Species reactivity	Human, Mouse
Tested Applications	
Western Blot (WB)	1:500-1:3,000

\* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

**Product specific information**

Recommended positive controls: A431, H1299, HeLa, HepG2, NIH-3T3. Predicted reactivity: Mouse (100%), Rat (100%), Rhesus Monkey (100%), Bovine (100%). Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

**Background/Target Information**

Adenosine receptors (ARs) are members of the 7-transmembrane domain G-protein-coupled receptor superfamily. Structural, biochemical and pharmacological analyses of the AR genes and protein has led to the discovery of four distinct AR subtypes (A1, A2a, A2b, A3). Activation of ARs mediates several receptor subtype-specific physiological processes that include cardiac rate, smooth muscle tone, platelet aggregation, inflammation, cell growth and death, and neurotransmission. The A1AR is a glycoprotein that can activate Gi and Go proteins in vitro. In intact cells, agonist occupation of the A1AR has been shown to cause pertussis toxin-sensitive inhibition of adenylyl cyclase activity and, in some systems, a stimulation of phospholipase C resulting in mobilization of intracellular calcium stores. Activation of potassium channels by A1AR has been intensively studied in relation to its dramatic effects on the cardiovascular system. A1AR protein is highly expressed in brain (especially cerebellum, hippocampus, thalamus, and cortex) and spinal cord and in part, modulates neurotransmitter release. In white adipocytes A1AR inhibits lipolysis and stimulates glucose uptake. Other tissues also express A1AR including kidney and testis.

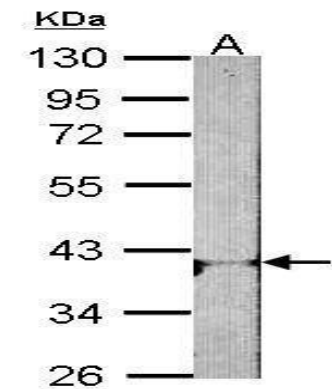
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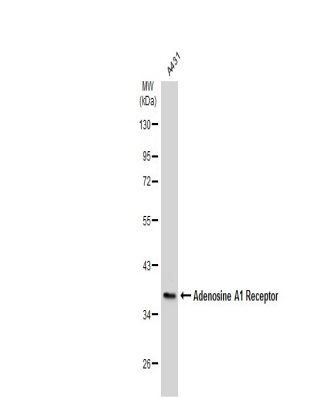
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Product Images For ADORA1 Polyclonal Antibody



**ADORA1 Antibody (PA5-27075) in WB**  
Western Blot using ADORA1 Polyclonal Antibody (Product # PA5-27075). Sample (30 µg of whole cell lysate). Lane A: NIH-3T3. 10% SDS PAGE. ADORA1 Polyclonal Antibody (Product # PA5-27075) diluted at 1:1,000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



**ADORA1 Antibody (PA5-27075) in WB**  
Western blot analysis of ADORA1 was performed by separating 30 µg of whole cell extract by 10% SDS-PAGE. Proteins were transferred to a membrane and probed with a ADORA1 Polyclonal Antibody (Product # PA5-27075) at a dilution of 1:500. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.

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