

Product datasheet for **TA349146**

Adenosine A2b Receptor (ADORA2B) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	ADORA2B antibody can be used for detection of ADORA2B by Western blot at 0.25 – 0.5 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL. Antibody validated: Western Blot in mouse samples; Immunohistochemistry in rat samples and Immunofluorescence in rat samples. All other applications and species not yet tested.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	ADORA2B antibody was raised against a 19 amino acid peptide near the carboxy terminus of human ADORA2B. The immunogen is located within the last 50 amino acids of ADORA2B.
Specificity:	ADORA2B antibody is human, mouse and rat reactive. At least two isoforms of ADORA2B are known to exist; this antibody will detect both isoforms. ADORA2B antibody is predicted to not cross-react with ADORA2A.
Formulation:	PBS containing 0.02% sodium azide.
Concentration:	1 mg/ml
Purification:	ADORA2B antibody is affinity chromatography purified via peptide column.
Conjugation:	Unconjugated
Storage:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	Predicted: 37 kDa; Observed: 41 kDa
Gene Name:	adenosine A2b receptor
Database Link:	NP_000667 Entrez Gene 11541 Mouse Entrez Gene 29316 Rat Entrez Gene 136 Human P29275



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Background:	The adenosine receptor ADORA2B is a member of the G protein-coupled receptor superfamily and is an integral membrane protein that stimulates adenylate cyclase activity in the presence of adenosine (1,2). Extracellular adenosine triggers a potent anti-inflammatory response that is mediated in part by ADORA2B including the stimulation of IL-10 production (3-5). Activation of ADORA2B can also enhance the abundance of regulatory T cells (Tregs), a class of cells that work to constrain inflammation (6).
Synonyms:	ADORA2
Protein Families:	Druggable Genome, GPCR, Transmembrane
Protein Pathways:	Calcium signaling pathway, Neuroactive ligand-receptor interaction, Vascular smooth muscle contraction