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ADORA2B Antibody

Catalog # ASC11898

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	P29275
Other Accession	NP_000667, 4501951
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	36333
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	ADORA2B antibody can be used for detection of ADORA2B by Western blot at 0.5 - 1 g/mL. Antibody can also be used for immunohistochemistry starting at 5 g/mL. For immunofluorescence start at 20 g/mL.

Additional Information

Gene ID	136
Other Names	Adenosine receptor A2b, ADORA2B
Target/Specificity	ADORA2B; 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.
Reconstitution & Storage	ADORA2B antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.
Precautions	ADORA2B Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	ADORA2B
Function	Receptor for adenosine. The activity of this receptor is mediated by G proteins which activate adenylyl cyclase.
Cellular Location	Cell membrane; Multi-pass membrane protein.

Background

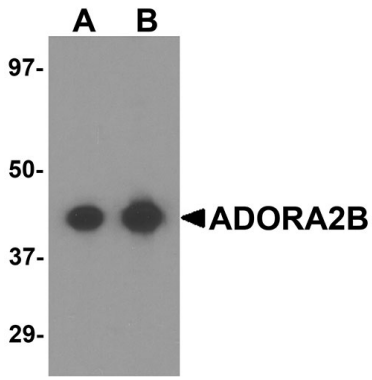
The adenosine receptor ADORA2B is a member of the G protein-coupled receptor superfamily and is an

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).

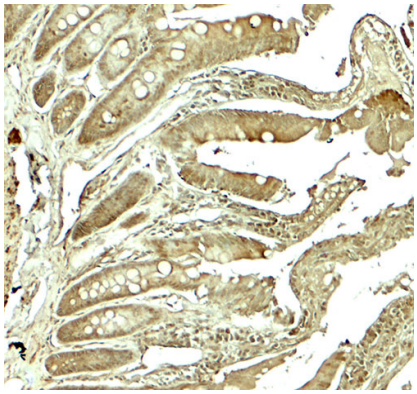
References

Pierce KD, Furlong TJ, Selbie LA, et al. Molecular cloning and expression of an adenosine A2b receptor from human brain. Biochem. Biophys. Res. Commun. 1992; 187:86-93.
Thimm D, Schiedel AC, Sherbiny FF, et al. Ligand-specific binding and activation of the human adenosine A(2B) receptor. Biochem. 2013; 52:726-40.
Blackburn MR, Vance CO, Morschl E, et al. Adenosine receptors and inflammation. Handb. Exp. Pharmacol. 2009; 215-69.
Grenz A, Homann D, Eltzschig HK. Extracellular adenosine: a safety signal that dampens hypoxia-induced inflammation during ischemia. Antioxid. Redox Signal. 2011; 15:2221-34.

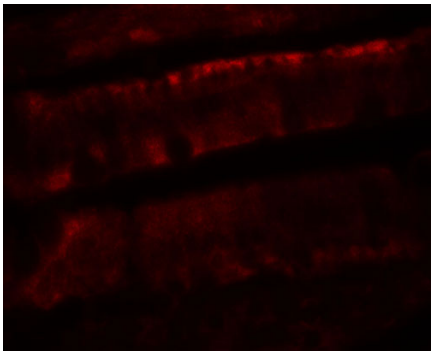
Images



Western blot analysis of ADORA2B in mouse colon tissue lysate with ADORA2B antibody at (A) 0.5 and (B) 1 µg/ml.



Immunohistochemistry of ADORA2B in rat colon tissue with ADORA2B antibody at 5 µg/mL.



Immunofluorescence of ADORA2B in rat colon tissue with ADORA2B antibody at 20 µg/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.