

**ADORA2B Antibody**  
Catalog # ASC11898

**Specification**

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**ADORA2B Antibody - Product Information**

Application	WB, IHC, IF
Primary Accession	<a href="#">P29275</a>
Other Accession	<a href="#">NP_000667</a> , <a href="#">4501951</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 37 kDa

Application Notes	<b>Observed: 41 kDa KDa</b> ADORA2B antibody can be used for detection of ADORA2B by Western blot at 0.5 - 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL.
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**ADORA2B Antibody - Additional Information**

Gene ID	136
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**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**

Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

**Precautions**

ADORA2B Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**ADORA2B Antibody - Protein Information**

**Name** ADORA2B

**Function**

Receptor for adenosine. The activity of this receptor is mediated by G proteins which activate adenylyl cyclase.

**Cellular Location**

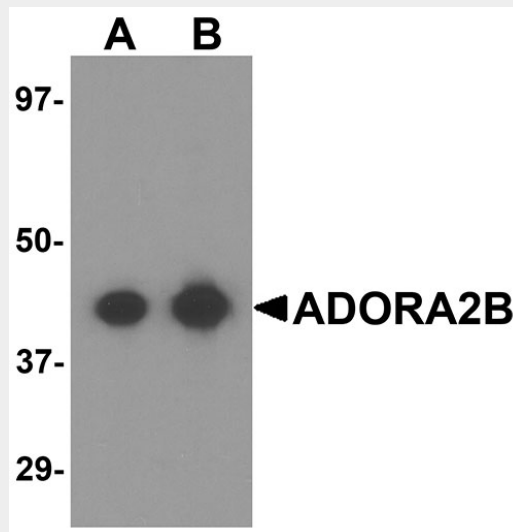
Cell membrane; Multi-pass membrane protein.

## ADORA2B Antibody - Protocols

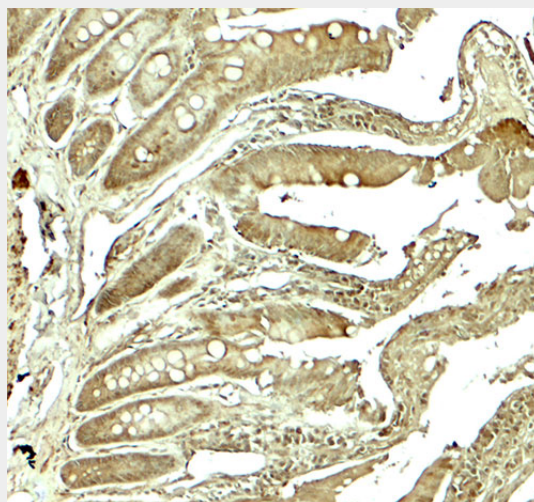
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

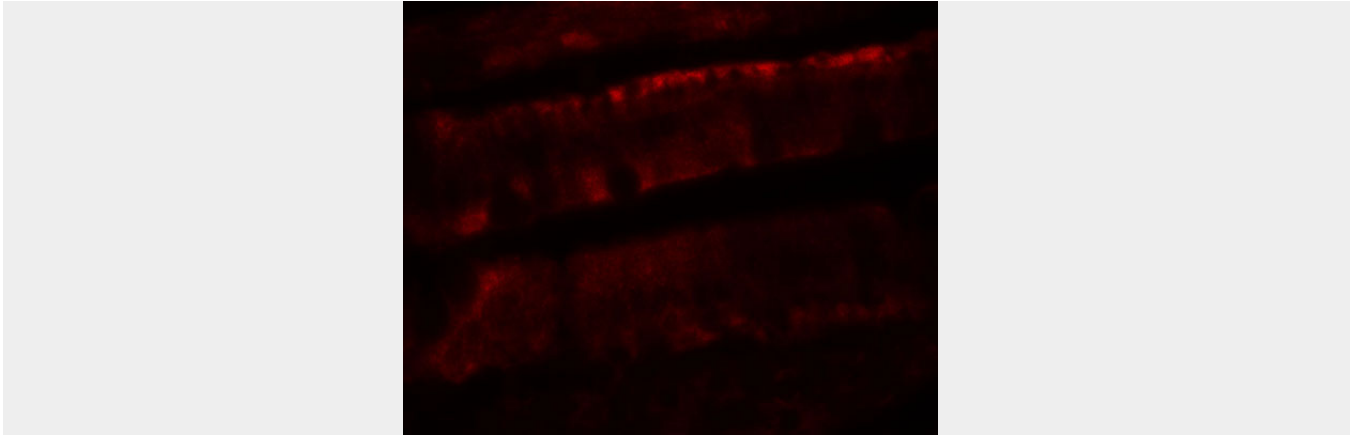
## ADORA2B Antibody - Images



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  $\mu$ g/mL.

### **ADORA2B Antibody - 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).

### **ADORA2B Antibody - 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.