

**P2RX4 / P2X4 Antibody (Internal)**  
**Goat Polyclonal Antibody**  
**Catalog # ALS15866****Specification**

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**P2RX4 / P2X4 Antibody (Internal) - Product Information**

Application	IHC, WB
Primary Accession	<a href="#">Q99571</a>
Reactivity	Human, Mouse, Rat, Hamster, Dog
Host	Goat
Clonality	Polyclonal
Calculated MW	43kDa KDa

**P2RX4 / P2X4 Antibody (Internal) - Additional Information****Gene ID** 5025**Other Names**

P2X purinoceptor 4, P2X4, ATP receptor, Purinergic receptor, P2RX4

**Target/Specificity**

Mouse P2RX4 / P2X4.

**Reconstitution & Storage**

Store at -20°C. Minimize freezing and thawing.

**Precautions**

P2RX4 / P2X4 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

**P2RX4 / P2X4 Antibody (Internal) - Protein Information****Name** P2RX4**Function**

ATP-gated nonselective transmembrane cation channel permeable to potassium, sodium and calcium (PubMed:<a href="http://www.uniprot.org/citations/9016352" target="\_blank">9016352</a>). Activated by extracellularly released ATP, it plays multiple role in immunity and central nervous system physiology (PubMed:<a href="http://www.uniprot.org/citations/35165166" target="\_blank">35165166</a>). Plays a key role in initial steps of T-cell activation and Ca(2+) microdomain formation (By similarity). Participates also in basal T-cell activity without TCR/CD3 stimulation (By similarity). Promotes the differentiation and activation of Th17 cells via expression of retinoic acid-related orphan receptor C/RORC (PubMed:<a href="http://www.uniprot.org/citations/35165166" target="\_blank">35165166</a>). Upon activation, drives microglia motility via the PI3K/Akt pathway (By similarity). Could also function as an ATP-gated cation channel of lysosomal membranes (By similarity).

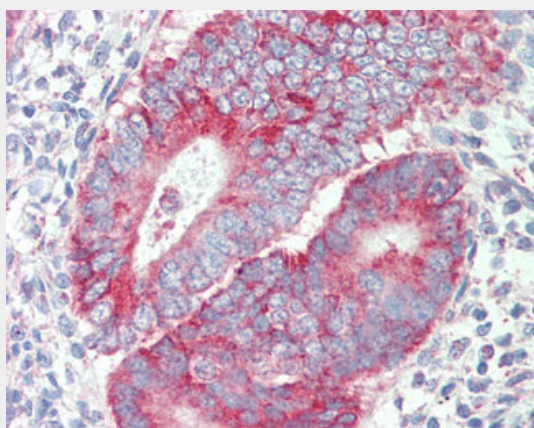
**Cellular Location**

Cell membrane; Multi-pass membrane protein. Lysosome membrane; Multi-pass membrane protein

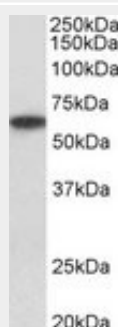
**P2RX4 / P2X4 Antibody (Internal) - Protocols**

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](#)

**P2RX4 / P2X4 Antibody (Internal) - Images**

Anti-P2RX4 / P2X4 antibody IHC staining of human uterus.



P2RX4 antibody (1 ug/ml) staining of Human Kidney lysate (35 ug protein in RIPA buffer).

**P2RX4 / P2X4 Antibody (Internal) - Background**

Receptor for ATP that acts as a ligand-gated ion channel. This receptor is insensitive to the antagonists PPADS and suramin.

**P2RX4 / P2X4 Antibody (Internal) - References**

Garcia-Guzman M.,et al.Mol. Pharmacol. 51:109-118(1997).  
Yamagata K.,et al.Submitted (JAN-1997) to the EMBL/GenBank/DDBJ databases.  
Korenaga R.,et al.Submitted (SEP-1999) to the EMBL/GenBank/DDBJ databases.  
Kalnine N.,et al.Submitted (OCT-2004) to the EMBL/GenBank/DDBJ databases.  
Scherer S.E.,et al.Nature 440:346-351(2006).