

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

P2RX4 / P2X4 Antibody (Internal) - Product Information

Application	IHC, WB
Primary Accession	Q99571
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:9016352). Activated by extracellularly released ATP, it plays multiple role in immunity and central nervous system physiology (PubMed:35165166). 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:35165166). 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).

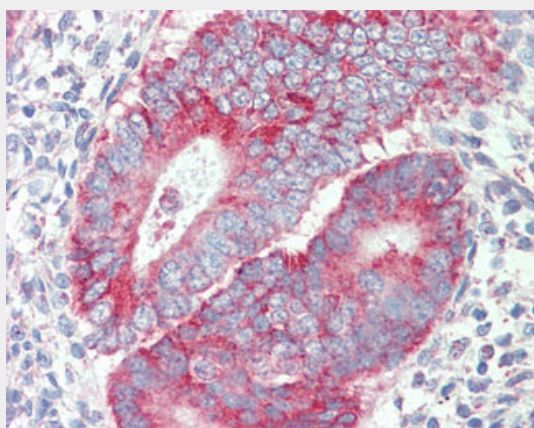
Cellular Location

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

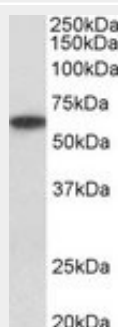
P2RX4 / P2X4 Antibody (Internal) - Protocols

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).