

**P2rx4 (mouse) Antibody (internal region)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF3725a****Specification**

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**P2rx4 (mouse) Antibody (internal region) - Product Information**

Application	WB
Primary Accession	<a href="#">Q99571</a>
Other Accession	<a href="#">NP_035156.2</a> , <a href="#">5025</a> , <a href="#">18438 (mouse)</a> , <a href="#">29659 (rat)</a>
Reactivity	Human
Predicted	Mouse, Rat, Pig, Dog, Cow
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	43369

**P2rx4 (mouse) Antibody (internal region) - Additional Information****Gene ID** 5025**Other Names**

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

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

P2rx4 (mouse) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**P2rx4 (mouse) Antibody (internal region) - 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

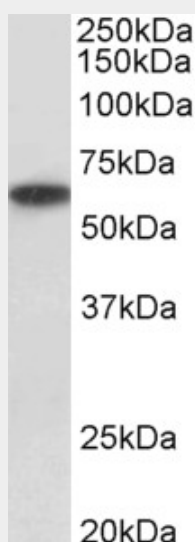
Cell membrane; Multi-pass membrane protein. Lysosome membrane; Multi-pass membrane protein

#### P2rx4 (mouse) Antibody (internal region) - 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 (mouse) Antibody (internal region) - Images



AF3725a (1 µg/ml) staining of Human Kidney lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### P2rx4 (mouse) Antibody (internal region) - References

Regenerative protein thymosin beta-4 is a novel regulator of purinergic signaling. Freeman KW, Bowman BR, Zetter BR. FASEB J. 2011 Mar;25(3):907-15. PMID: 21106936