

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

Specification

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

Application	WB
Primary Accession	Q99571
Other Accession	NP_035156.2 , 5025 , 18438 (mouse) , 29659 (rat)
Reactivity	Human
Predicted	Mouse, Rat, Pig, Dog
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:9016352). CTP, but not GTP or UTP, functions as a weak affinity agonist for P2RX4 (By similarity). 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

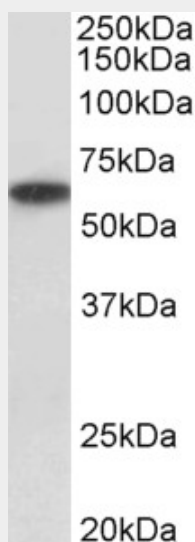
Cell membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:F8W463}. Lysosome membrane; Multi-pass membrane protein

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