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P2RX6 Rabbit pAb

Catalog # AP96894

Product Information

Application	WB
Primary Accession	O15547
Other Accession	O15547
Reactivity	Mouse
Predicted	Rat, Pig, Human, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	48829
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human P2RX6
Epitope Specificity	55-160/441
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the P2X receptor family.
SUBUNIT	Functional P2XRs are organized as homomeric and heteromeric trimers
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The P2X receptor family is comprised of ligand-gated ion channels that allow for the increased permeability of calcium into the cell in response to extracellular ATP. The seven P2X receptors, P2X1-P2X7, form either homomeric or heteromeric channels or both. They are characterized by intracellular amino- and carboxy-termini. P2X receptors are expressed in a wide variety of tissues, including neurons, prostate, bladder, pancreas, colon, testis and ovary. The major function of the P2X receptors is to mediate synaptic transmissions between neurons and to other tissues via the binding of extracellular ATP, which acts as a neurotransmitter. The P2X receptors may be involved in the onset of necrosis or apoptosis after prolonged exposure to high concentrations of extracellular ATP.

Additional Information

Gene ID	9127
Other Names	P2RXL1; P2X6; P2XM; Rnap2x6; P2RX6_HUMAN; P2RX6; ATP receptor; Purinergic receptor; Purinergic receptor P2X-like 1; P2RX6_MOUSE; P2RX6_RAT; purinergic receptor P2X 6; purinergic receptor P2X-like 1, orphan receptor; purinergic receptor P2X, ligand-gated ion channel, 6
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody

is stable for at least two weeks at 2-4 °C.

Protein Information

Name	P2RX6
Synonyms	P2RXL1, P2X6
Function	May act as a modulatory subunit rather than a functional channel. Unlike other P2XRs members, P2RX6 does not seem to form functional homotrimers (PubMed:22378790). P2RX6 requires the presence of P2RX4 or P2RX2 to shuttle it to the plasma membrane where it may form functional heterotrimeric receptors at the plasma membrane (PubMed:22378790). P2RX6 can be translocated to the nucleus and functions as a nuclear regulator of post-transcriptional modifications in neurons (By similarity).
Cellular Location	Cell membrane {ECO:0000250|UniProtKB:P51579}; Multi-pass membrane protein. Endoplasmic reticulum {ECO:0000250|UniProtKB:P51579}. Nucleus {ECO:0000250|UniProtKB:O54803} Nucleus inner membrane {ECO:0000250|UniProtKB:O54803}; Multi-pass membrane protein. Note=Heteromerization of P2RX6 subunits with either P2RX2 or P2RX4 subunits guides the P2RX6 subunit to the plasma membrane (By similarity). Monomers remain anchored to the endoplasmic reticulum (ER) membrane by the hydrophobic N-terminal end (By similarity). Mainly expressed in the cell body of the hippocampal neurons (By similarity). {ECO:0000250|UniProtKB:O54803, ECO:0000250|UniProtKB:P51579}
Tissue Location	Expressed predominantly in skeletal muscle.

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