10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

P2RX6 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17114c

Product Information

Application	WB, E
Primary Accession	O15547
Other Accession	NP_001153026.1, NP_005437.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB37094
Calculated MW	48829
Antigen Region	198-226

Additional Information

Gene ID	9127
Other Names	P2X purinoceptor 6, P2X6, ATP receptor, P2XM, Purinergic receptor, Purinergic receptor P2X-like 1, P2RX6, P2RXL1, P2X6
Target/Specificity	This P2RX6 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 198-226 amino acids from the Central region of human P2RX6.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	P2RX6 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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.

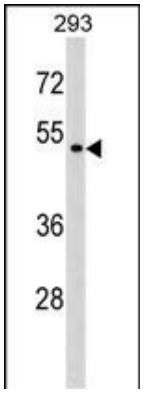
Background

The protein encoded by this gene belongs to the family of P2X receptors, which are ATP-gated ion channels and mediate rapid and selective permeability to cations. This gene is predominantly expressed in skeletal muscle, and regulated by p53. The encoded protein is associated with VE-cadherin at the adherens junctions of human umbilical vein endothelial cells. Alternative splicing results in multiple transcript variants. A related pseudogene, which is also located on chromosome 22, has been identified.

References

Trynka, G., et al. Gut 58(8):1078-1083(2009)
Luke, M.M., et al. Stroke 40(2):363-368(2009)
Palomino-Doza, J., et al. Hypertension 52(5):980-985(2008)
Shiffman, D., et al. Arterioscler. Thromb. Vasc. Biol. 28(1):173-179(2008)
Dubyak, G.R. Mol. Pharmacol. 72(6):1402-1405(2007)

Images



P2RX6 Antibody (Center) (Cat. #AP17114c) western blot analysis in 293 cell line lysates (35ug/lane).This demonstrates the P2RX6 antibody detected the P2RX6 protein (arrow).