

Anti-P2X5 Picoband Antibody

Catalog # ABO11996

Product Information

Application	WB, IHC-P
Primary Accession	Q93086
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for P2X purinoceptor 5(P2RX5) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	5026
Other Names	P2X purinoceptor 5, P2X5, ATP receptor, Purinergic receptor, P2RX5, P2X5
Calculated MW	49303
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Mouse, Rat, Human, By Heat Western blot, 0.1-0.5 µg/ml, Rat, Human
Subcellular Localization	Membrane; Multi-pass membrane protein.
Tissue Specificity	Expressed at high levels in brain and immune system.
Source	Eukaryota
Protein Name	P2X purinoceptor 5
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Immunogen	E.coli-derived human P2X5 recombinant protein (Position: D333-T422). Human P2X5 shares 42% amino acid (aa) sequence identity with rat P2X5.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated freezing and thawing.

Protein Information

Name	P2RX5 (HGNC:8536)
Function	[Isoform 6]: ATP-gated nonselective transmembrane cation channel permeable to potassium, sodium and calcium (PubMed: 12761352). Unlike other P2RX receptors, the P2X5 receptor is also permeable to chloride (PubMed: 12761352). May play a supporting role in the inflammatory response (By similarity).
Cellular Location	[Isoform 6]: Cell membrane; Multi-pass membrane protein {ECO:0000250 UniProtKB:P56373}. Note=The absence of the exon 10-encoded amino acids substantially results in subunit aggregation and retention in the cell cytoplasm
Tissue Location	Expressed at high levels in brain and immune system

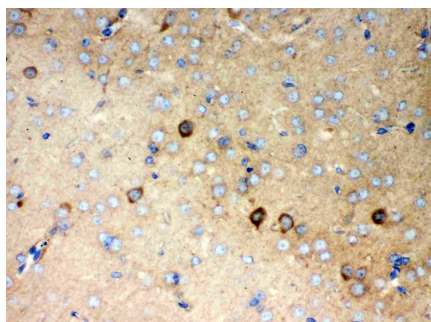
Background

P2X purinoceptor 5 is a protein that in humans is encoded by the P2RX5 gene. The product of this gene belongs to the family of purinoceptors for ATP. It has been identified that the P2RX5 gene within a BAC contig covering chromosome 17p13. This receptor functions as a ligand-gated ion channel. Several characteristic motifs of ATP-gated channels are present in its primary structure, but, unlike other members of the purinoceptors family, this receptor has only a single transmembrane domain. Quantitative dot blots revealed that P2X5R expression is highest in brain and immune system and is developmentally regulated.

Images

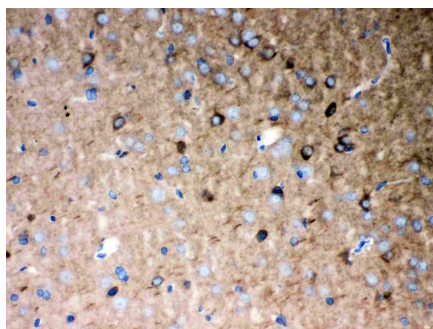


Anti- P2X5 Picoband antibody, ABO11996, Western blottingAll lanes: Anti P2X5 (ABO11996) at 0.5ug/mlWB: Rat Brain Tissue Lysate at 50ugPredicted bind size: 47KDObserved bind size: 47KD



Anti- P2X5 Picoband antibody, ABO11996, IHC(P)IHC(P): Mouse Brain Tissue

Anti- P2X5 Picoband antibody, ABO11996, IHC(P)IHC(P): Rat Brain Tissue



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