

Anti-P2X5 Picoband Antibody
Catalog # ABO11996**Specification**

Anti-P2X5 Picoband Antibody - 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.

Anti-P2X5 Picoband Antibody - Additional Information

Gene ID 5026

Other Names

P2X purinoceptor 5, P2X5, ATP receptor, Purinergic receptor, P2RX5, P2X5

Calculated MW

47205 MW KDa

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.

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.

Sequence Similarities

Belongs to the P2X receptor family.

Anti-P2X5 Picoband Antibody - Protein Information

Name P2RX5 ([HGNC:8536](#))

Function

[Isoform 6]: ATP-gated nonselective transmembrane cation channel permeable to potassium, sodium and calcium (PubMed: [12761352](http://www.uniprot.org/citations/12761352)). Unlike other P2RX receptors, the P2X5 receptor is also permeable to chloride (PubMed: [12761352](http://www.uniprot.org/citations/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

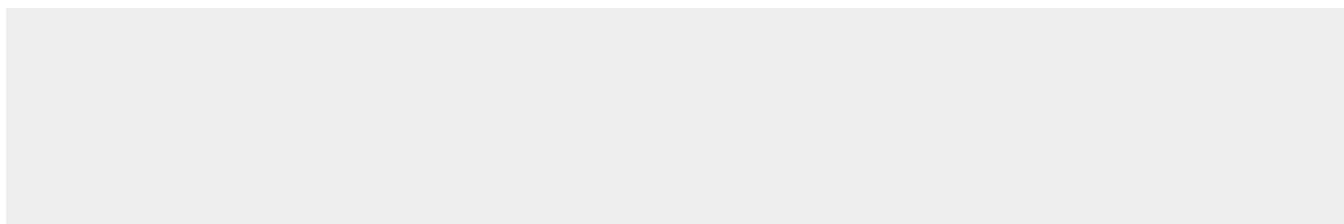
Tissue Location

Expressed at high levels in brain and immune system

Anti-P2X5 Picoband Antibody - Protocols

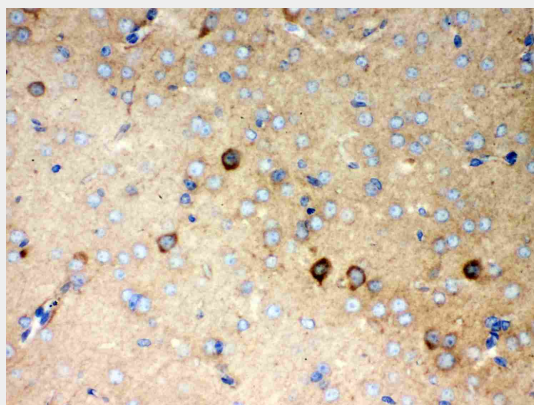
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

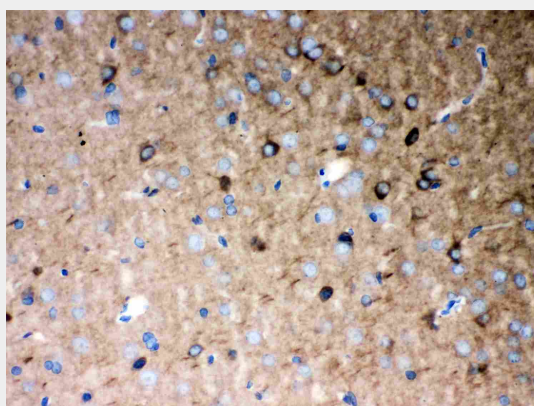
Anti-P2X5 Picoband Antibody - Images

130KD —
100KD —
70KD —
55KD —
35KD —
25KD —
15KD —

Anti- P2X5 Picoband antibody, ABO11996, Western blotting All lanes: Anti P2X5 (ABO11996) at 0.5ug/ml WB: Rat Brain Tissue Lysate at 50ug Predicted bind size: 47KD Observed 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

Anti-P2X5 Picoband Antibody - 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.