

Datasheet for ABIN3043894  
**anti-P2RX5 antibody (AA 333-422)**[Go to Product page](#)

3 Images

1 Publication

## Overview

Quantity:	100 µg
Target:	P2RX5
Binding Specificity:	AA 333-422
Reactivity:	Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This P2RX5 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for P2X purinoceptor 5(P2RX5) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	E.coli-derived human P2X5 recombinant protein (Position: D333-T422). Human P2X5 shares 42% amino acid (aa) sequence identity with rat P2X5.
Isotype:	IgG
Cross-Reactivity (Details):	<p>Predicted Cross Reactivity: human</p> <p>No cross reactivity with other proteins.</p> <p>Predicted Cross Reactivity: Species predicted to be fit for the product based on sequence similarities.</p>
Characteristics:	Rabbit IgG polyclonal antibody for P2X purinoceptor 5(P2RX5) detection. Tested with WB, IHC-P in Human,Mouse,Rat.

## Product Details

Gene Name: purinergic receptor P2X, ligand gated ion channel, 5

Protein Name: P2X purinoceptor 5

Purification: Immunogen affinity purified.

## Target Details

Target: P2RX5

Alternative Name: P2RX5 ([P2RX5 Products](#))

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.

Synonyms: ATP receptor antibody|ATP receptor subunit antibody|Ionotropic ATP receptor P2X5 antibody|LRH 1 antibody|LRH1 antibody|Lymphoid restricted histocompatibility antigen 1 antibody|MGC47755 antibody|P2rx5 antibody|P2RX5\_HUMAN antibody|P2X purinoceptor 5 antibody|P2X5 antibody|P2X5R antibody|Purinergic receptor antibody|Purinergic receptor P2X ligand gated ion channel 5 antibody|Purinergic receptor P2X5 antibody

Gene ID: 5026

UniProt: [Q93086](#)

## Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Rat, Predicted Species: Human, The detection limit for P2X5 is approximately 0.25 ng/lane under reducing conditions.  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Mouse, Rat, Predicted Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.  
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.  
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by

## Application Details

ABIN921231 in IHC(P).

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05 mg Sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

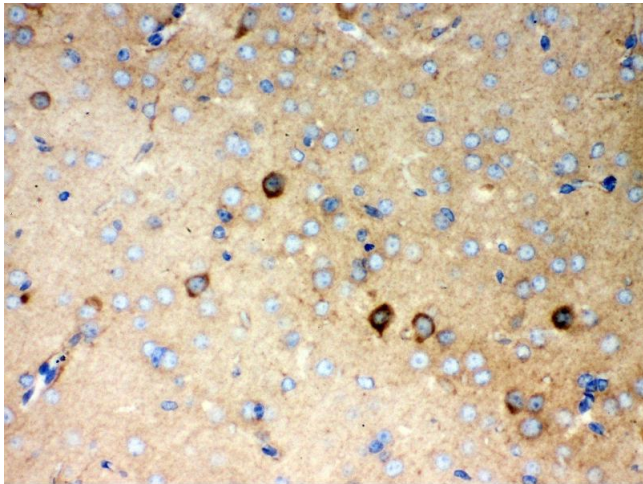
Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

Storage Comment: 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.

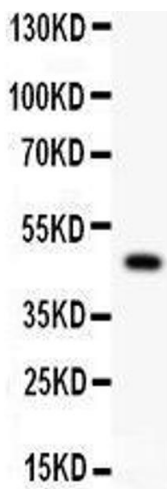
## Publications

Product cited in: Yu, Chen, Jiang: "Administration of pigment epithelium-derived factor delivered by adeno-associated virus inhibits blood-retinal barrier breakdown in diabetic rats." in: **Molecular vision**, Vol. 16, pp. 2384-94, (2011) ([PubMed](#)).



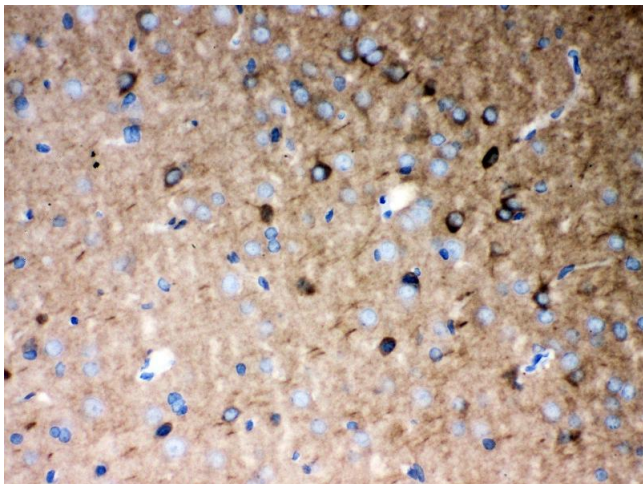
#### Immunohistochemistry

**Image 1.** Anti- P2X5 Picoband antibody, IHC(P) IHC(P):  
Mouse Brain Tissue



#### Western Blotting

**Image 2.** Anti- P2X5 Picoband antibody, Western blotting All  
lanes: Anti P2X5 at 0.5ug/ml WB: Rat Brain Tissue Lysate at  
50ug Predicted bind size: 47KD Observed bind size: 47KD



#### Immunohistochemistry

**Image 3.** Anti- P2X5 Picoband antibody, IHC(P) IHC(P): Rat  
Brain Tissue