

**Anti-P2RX7 Antibody**  
**Catalog # ABO11437****Specification**

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**Anti-P2RX7 Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q64663</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for P2X purinoceptor 7(P2RX7) detection. Tested with WB in Human;Mouse;Rat.

**Reconstitution**

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

**Anti-P2RX7 Antibody - Additional Information**

**Gene ID** 29665

**Other Names**

P2X purinoceptor 7, P2X7, ATP receptor, P2Z receptor, Purinergic receptor, P2rx7

**Calculated MW**

68392 MW KDa

**Application Details**

Western blot, 0.1-0.5 µg/ml, Human, Rat, Mouse<br>

**Subcellular Localization**

Cell membrane ; Multi-pass membrane protein.

**Protein Name**

P2X purinoceptor 7

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

**Immunogen**

A synthetic peptide corresponding to a sequence at the N-terminus of rat P2RX7(1-20aa MPACCSWNDVFQYETNKVTR), different from the related mouse sequence by one amino acid, and from the related human sequence by two amino acids.

**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.

### Anti-P2RX7 Antibody - Protein Information

**Name** P2rx7

#### Function

Receptor for ATP that acts as a ligand-gated ion channel. Responsible for ATP-dependent lysis of macrophages through the formation of membrane pores permeable to large molecules. Could function in both fast synaptic transmission and the ATP-mediated lysis of antigen-presenting cells.

#### Cellular Location

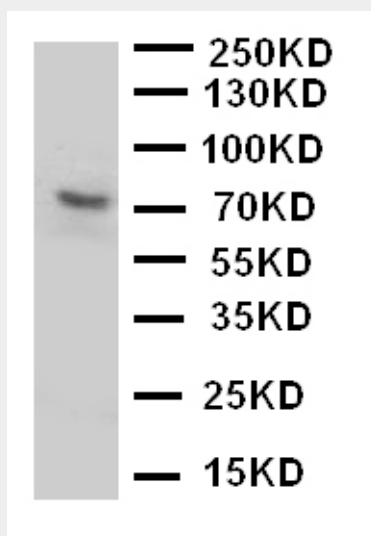
Cell membrane {ECO:0000250|UniProtKB:Q99572}; Multi-pass membrane protein

### Anti-P2RX7 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-P2RX7 Antibody - Images



Anti-P2RX7 antibody, ABO11437, Western blottingWB: U87 Cell Lysate

**Anti-P2RX7 Antibody - Background**

P2X purinoceptor 7, also called P2X7, is a protein that in humans is encoded by the P2RX7 gene. The product of this gene belongs to the family of purinoceptors for ATP. P2RX7 was mapped to chromosome 12q24 by fluorescence in situ hybridization. It is a receptor for ATP that acts as a ligand-gated ion channel. This gene is responsible for ATP-dependent lysis of macrophages through the formation of membrane pores permeable to large molecules. It could function in both fast synaptic transmission and the ATP-mediated lysis of antigen-presenting cells.