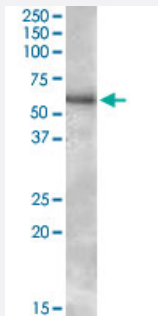


## P2RX4 polyclonal antibody

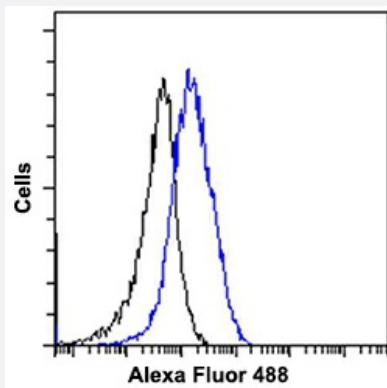
Catalog # PAB18695      Size 100 ug

### Applications



#### Western Blot (Tissue lysate)

P2RX4 polyclonal antibody (Cat # PAB18695) (0.3 ug/mL) staining of human kidney lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



#### Flow Cytometry

P2RX4 polyclonal antibody (Cat # PAB18695) Flow cytometric analysis of paraformaldehyde fixed A431 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (1 ug/mL). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.

### Specification

|                      |                                                                     |
|----------------------|---------------------------------------------------------------------|
| Product Description  | Goat polyclonal antibody raised against synthetic peptide of P2RX4. |
| Immunogen            | A synthetic peptide corresponding to C-terminus of human P2RX4.     |
| Sequence             | C-YREKKYKYVEDYEQ                                                    |
| Host                 | Goat                                                                |
| Theoretical MW (kDa) | 43.4                                                                |
| Reactivity           | Human, Mouse                                                        |

|                     |                                                                                                                                                   |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Form                | Liquid                                                                                                                                            |
| Purification        | Antigen affinity purification                                                                                                                     |
| Concentration       | 0.5 mg/mL                                                                                                                                         |
| Recommend Usage     | ELISA (1:128000)<br>Flow Cytometry (10 ug/mL)<br>Western Blot (0.3-1 ug/mL)<br>The optimal working dilution should be determined by the end user. |
| Storage Buffer      | In Tris saline, pH 7.3 (0.02% sodium azide, 0.5% BSA)                                                                                             |
| Storage Instruction | Store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                                |
| Note                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                            |

## Applications

- Western Blot (Tissue lysate)

P2RX4 polyclonal antibody (Cat # PAB18695) (0.3 ug/mL) staining of human kidney lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

P2RX4 polyclonal antibody (Cat # PAB18695) Flow cytometric analysis of paraformaldehyde fixed A431 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10 ug/mL) followed by Alexa Fluor 488 secondary antibody (1 ug/mL). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.

## Gene Info — P2RX4

|                    |                                                      |
|--------------------|------------------------------------------------------|
| Entrez GeneID      | <a href="#">5025</a>                                 |
| Protein Accession# | <a href="#">NP_002551.2</a>                          |
| Gene Name          | P2RX4                                                |
| Gene Alias         | P2X4, P2X4R                                          |
| Gene Description   | purinergic receptor P2X, ligand-gated ion channel, 4 |
| Omim ID            | <a href="#">600846</a>                               |

## Gene Ontology

[Hyperlink](#)

## Gene Summary

The product of this gene belongs to the family of purinoceptors for ATP. This receptor functions as a ligand-gated ion channel with high calcium permeability. The main pharmacological distinction between the members of the purinoceptor family is the relative sensitivity to the antagonists suramin and PPADS. The product of this gene has the lowest sensitivity for these antagonists. Multiple alternatively spliced transcript variants have been identified for this gene although their full-length natures have not been determined. [provided by RefSeq]

## Other Designations

ATP receptor|ATP-gated cation channel protein|P2X purinoceptor 4|P2X receptor, subunit 4|purinergic receptor P2X4|purinoceptor P2X4

## Pathway

- [Calcium signaling pathway](#)
- [Neuroactive ligand-receptor interaction](#)

## Disease

- [Agoraphobia](#)
- [Anxiety Disorders](#)
- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Panic Disorder](#)
- [Phobic Disorders](#)