

For Research Use Only

P2RX7 Polyclonal antibody

Catalog Number: 11144-1-AP

21 Publications



Basic Information

Catalog Number:

11144-1-AP

Concentration:

650 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1600

GenBank Accession Number:

BC011913

GeneID (NCBI):

5027

UNIPROT ID:

Q99572

Full Name:

purinergic receptor P2X, ligand-gated ion channel, 7

Calculated MW:

69 kDa

Observed MW:

70-80 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:1000-1:6000

FC (Intra): 0.50 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, FC (Intra), ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Positive Controls:

WB : mouse brain tissue, mouse cerebellum tissue

FC (Intra) : RAW 264.7 cells,

Background Information

Nucleotides, the structural subunits of the nucleic acids, are also important extracellular signaling molecules. P2 receptors are a family of cell surface receptors that mediate a wide variety of physiologic effects in response to extracellular nucleotides. These receptors fall into two classes: P2X receptors, which are ligand-gated ion channels that mediate calcium and potassium fluxes in response to ATP, and P2Y receptors, which are G protein-coupled receptors (GPCRs) (PMID: 21724990). P2RX7 functions as a ligand-gated ion channel and is responsible for ATP-dependent lysis of macrophages through the formation of membrane pores permeable to large molecules. P2RX7 is highly expressed by cells of the haemopoietic lineage and can mediate cell death, killing of infectious organisms, and regulation of the inflammatory response (PMID: 22102807).

Notable Publications

| Author | Pubmed ID | Journal | Application |
|---------------|-----------|-----------------------|-------------|
| Baochang Qi | 27716441 | J Exp Clin Cancer Res | IF |
| Wen-Jun Su | 30483062 | Front Cell Neurosci | WB |
| Qingkai Zhang | 30542707 | Oncol Rep | WB |

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

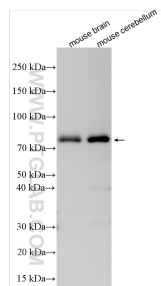
T: 4006900926

E: Proteintech-CN@ptglab.com

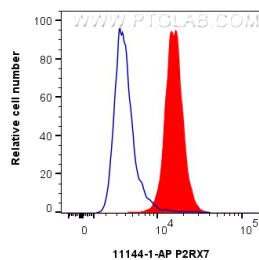
W: ptgcn.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 11144-1-AP (P2RX7 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



1×10^6 RAW 264.7 cells were intracellularly stained with 0.5 μ g P2RX7 Polyclonal antibody (11144-1-AP) and Coralite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.5 μ g Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).