

For Research Use Only

# P2RX7 Polyclonal antibody

Catalog Number: 28207-1-AP

Featured Product

22 Publications



## Basic Information

Catalog Number:

28207-1-AP

Size:

150ul, Concentration: 500 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG27700

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 1:500-1:3000

## Applications

Tested Applications:

WB, FC (Intra), ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse

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
Chengli Liu	36282438	Mol Neurobiol	WB,IF
Xuemei Huang	36444395	Phytother Res	WB,IHC
Ying Zhang	31276917	Adv Med Sci	WB,IHC

## 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

\*\*\* 20ul sizes contain 0.1% BSA

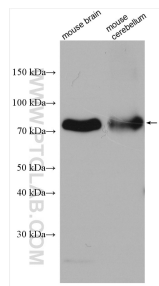
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

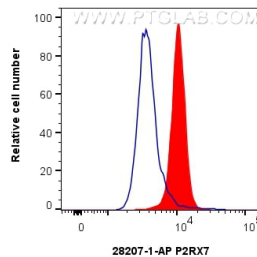
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 28207-1-AP (P2RX7 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



$1 \times 10^6$  RAW 264.7 cells were intracellularly stained with 0.5  $\mu$ g P2RX7 Polyclonal antibody (28207-1-AP) and Coralite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.5  $\mu$ g Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).