

For Research Use Only

# P2RX7 Polyclonal antibody

Catalog Number: 11144-1-AP **19 Publications**



## Basic Information

<b>Catalog Number:</b> 11144-1-AP	<b>GenBank Accession Number:</b> BC011913	<b>Purification Method:</b> Antigen affinity purification
<b>Concentration:</b> 650 ug/ml	<b>GeneID (NCBI):</b> 5027	<b>Recommended Dilutions:</b> WB 1:1000-1:6000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q99572	
<b>Isotype:</b> IgG	<b>Full Name:</b> purinergic receptor P2X, ligand-gated ion channel, 7	
<b>Immunogen Catalog Number:</b> AG1600	<b>Calculated MW:</b> 69 kDa	

## Applications

<b>Tested Applications:</b> WB, FC (Intra), ELISA	<b>Positive Controls:</b> WB : mouse brain tissue, mouse cerebellum tissue
<b>Cited Applications:</b> WB, IHC, IF	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse, rat	

## 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

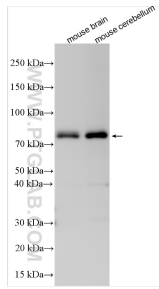
## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

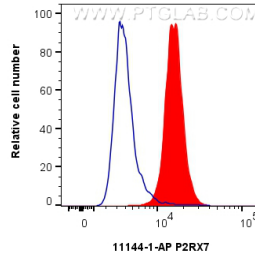
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## Selected Validation Data



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.



1x10<sup>6</sup> RAW 264.7 cells were intracellularly stained with 0.5 ug P2RX7 Polyclonal antibody (11144-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.5 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).