

For Research Use Only

# P2RX4 Monoclonal antibody

Catalog Number: 66416-1-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 66416-1-Ig	<b>GenBank Accession Number:</b> BC033826	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1700 µg/ml by Nanodrop and 1000 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5025	<b>CloneNo.:</b> 1A5A6
<b>Source:</b> Mouse	<b>Full Name:</b> purinergic receptor P2X, ligand-gated ion channel, 4	<b>Recommended Dilutions:</b> WB 1:1000-1:8000 IHC 1:50-1:500
<b>Isotype:</b> IgG2b	<b>Calculated MW:</b> 388 aa, 43 kDa	
<b>Immunogen Catalog Number:</b> AG4445	<b>Observed MW:</b> 50 kDa	

## Applications

### Tested Applications:

FC, IHC, WB, ELISA

### Cited Applications:

WB

### Species Specificity:

human, mouse, pig, rat

### Cited Species:

mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

**WB :** HeLa cells, A549 cells, mouse brain tissue, rat brain tissue, rabbit brain tissue, Neuro-2a cells, human brain tissue, pig brain tissue

**IHC :** human kidney tissue,

## 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). P2RX4 (P2X purinoceptor 4) is a receptor for ATP acting as a ligand gated ion channel. The calculated molecular weight of P2RX4 is 43 kDa, larger apparent molecular weights of 50-80 kDa have been reported, possibly due to post-translational glycosylation (PMID: 24040145, 15262999; 29382907; 12566439).

## Notable Publications

Author	Pubmed ID	Journal	Application
Peijie Zhong	37085966	Clin Transl Med	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

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

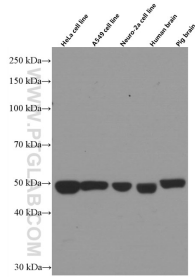
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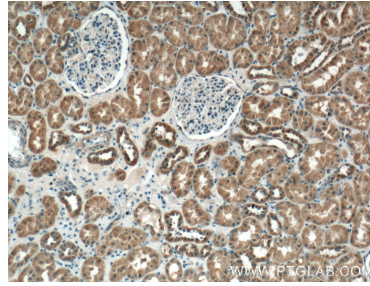
E: proteintech@ptglab.com  
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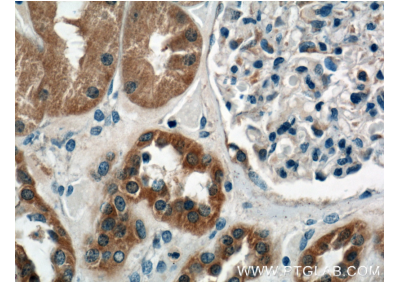
## Selected Validation Data



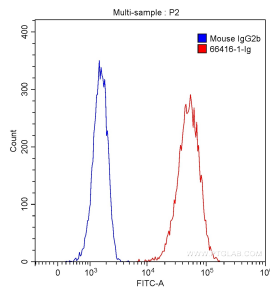
Various lysates were subjected to SDS PAGE followed by western blot with 66416-1-Ig (P2RX4 Antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 66416-1-Ig (P2RX4 Antibody) at dilution of 1:400 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 66416-1-Ig (P2RX4 Antibody) at dilution of 1:400 (under 40x lens).



1X10<sup>6</sup> HeLa cells were stained with 0.20 ug Anti-Human P2RX4 (66416-1-Ig, Clone:1A5A6) (red) or 0.20 ug isotype control antibody (blue) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) with dilution 1:1000. Cells were fixed with 90% MeOH.