

For Research Use Only

P2RX4 Monoclonal antibody

Catalog Number: 66416-1-Ig 1 Publications



Basic Information

Catalog Number: 66416-1-Ig	GenBank Accession Number: BC033826	Purification Method: Protein A purification
Size: 1700 µg/ml	GeneID (NCBI): 5025	CloneNo.: 1A5A6
Source: Mouse	UNIPROT ID: Q99571	Recommended Dilutions: WB 1:1000-1:8000 IHC 1:50-1:500
Isotype: IgG2b	Full Name: purinergic receptor P2X, ligand-gated ion channel, 4	
Immunogen Catalog Number: AG4445	Calculated MW: 388 aa, 43 kDa	
	Observed MW: 50 kDa	

Applications

Tested Applications: FC, IHC, WB, ELISA	Positive Controls:
Cited Applications: WB	WB : HeLa cells, A549 cells, mouse brain tissue, rat brain tissue, rabbit brain tissue, Neuro-2a cells, human brain tissue, pig brain tissue
Species Specificity: human, mouse, pig, rat	IHC : human kidney tissue,
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	

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

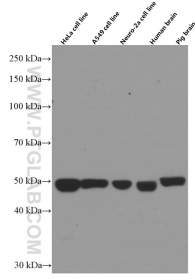
Storage

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

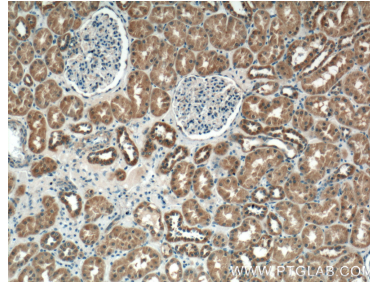
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

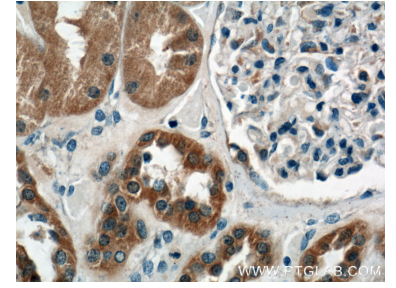
Selected Validation Data



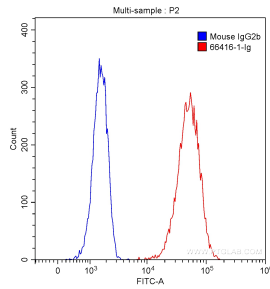
Various lysates were subjected to SDS PAGE followed by western blot with 66416-1-Ig (P2RX4 Antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



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).



1X10⁶ 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.