

For Research Use Only

P2RX4 Monoclonal antibody

Catalog Number: 66416-1-Ig **2 Publications**



Basic Information

Catalog Number: 66416-1-Ig	GenBank Accession Number: BC033826	Purification Method: Protein A purification
Size: 150ul , Concentration: 1700 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	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: WB, IHC, 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
Zejin Liu	38301964	Biochem Pharmacol	WB
Peijie Zhong	37085966	Clin Transl Med	WB

Storage

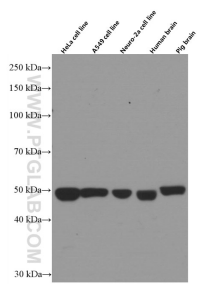
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

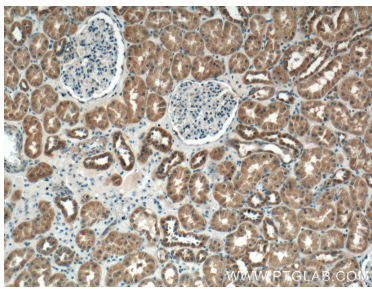
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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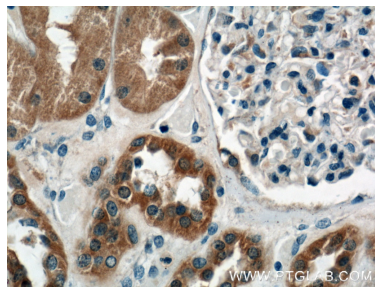
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 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).