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P2RX5 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant P2RX5.
Catalog # AT3167a

Product Information

Application	WB, E
Primary Accession	Q93086
Other Accession	NM_002561
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	1C5
Calculated MW	49303

Additional Information

Gene ID	5026
Other Names	P2X purinoceptor 5, P2X5, ATP receptor, Purinergic receptor, P2RX5, P2X5
Target/Specificity	P2RX5 (NP_002552, 126 a.a. ~ 224 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	P2RX5 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

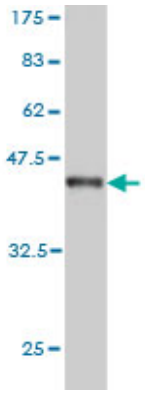
The product of this gene belongs to the family of purinoceptors for ATP. This receptor functions as a ligand-gated ion channel. Several characteristic motifs of ATP-gated channels are present in its primary structure, but, unlike other members of the purinoceptors family, this receptor has only a single transmembrane domain. Three transcript variants encoding distinct isoforms have been identified for this gene.

References

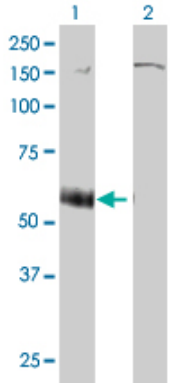
Genetic and functional analysis of human P2X5 reveals a distinct pattern of exon 10 polymorphism with predominant expression of the nonfunctional receptor isoform. Kotnis S, et al. Mol Pharmacol, 2010 Jun.

PMID 20223879.Aberrant expression of the hematopoietic-restricted minor histocompatibility antigen LRH-1 on solid tumors results in efficient cytotoxic T cell-mediated lysis. Overes IM, et al. Cancer Immunol Immunother, 2009 Mar. PMID 18719914.Go it alone no more--P2X7 joins the society of heteromeric ATP-gated receptor channels. Dubyak GR. Mol Pharmacol, 2007 Dec. PMID 17895406.P2X5 subunit assembly requires scaffolding by the second transmembrane domain and a conserved aspartate. Duckwitz W, et al. J Biol Chem, 2006 Dec 22. PMID 17001079.Purinoceptor expression on keratinocytes reflects their function on the epidermis during chronic venous insufficiency. Metcalfe MJ, et al. Arch Dermatol Res, 2006 Nov. PMID 16967306.

Images

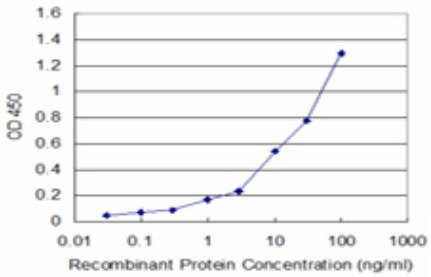


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .

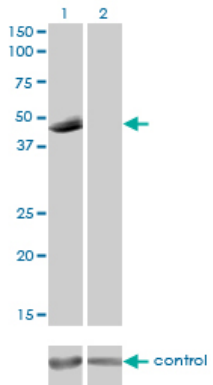


Western Blot analysis of P2RX5 expression in transfected 293T cell line by P2RX5 monoclonal antibody (M01), clone 1C5.

Lane 1: P2RX5 transfected lysate(46.42 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged P2RX5 is approximately 1ng/ml as a capture antibody.



Western blot analysis of P2RX5 over-expressed 293 cell line, cotransfected with P2RX5 Validated Chimera RNAi ((Cat # AT3167a)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.