

P2RX5 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant P2RX5.

Catalog # AT3167a

Specification

P2RX5 Antibody (monoclonal) (M01) - Product Information

Application	WB, E
Primary Accession	O93086
Other Accession	NM_002561
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	49303

P2RX5 Antibody (monoclonal) (M01) - 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

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.

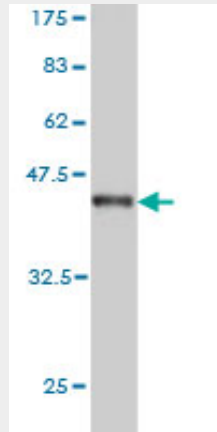
P2RX5 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

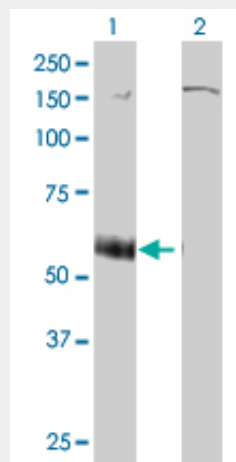
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

P2RX5 Antibody (monoclonal) (M01) - Images

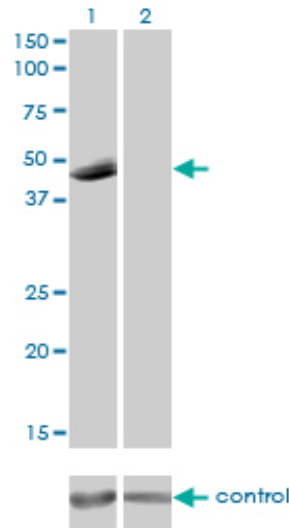


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .

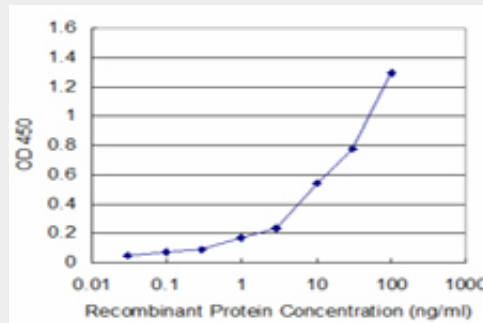


Western Blot analysis of P2RX5 expression in transfected 293T cell line by P2RX5 monoclonal antibody (M01), clone 1C5.

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



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



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

P2RX5 Antibody (monoclonal) (M01) - 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.

P2RX5 Antibody (monoclonal) (M01) - 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.