10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KCNJ15 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant KCNJ15.
Catalog # AT2599a

Product Information

Application	WB, E
Primary Accession	Q99712
Other Accession	NM_002243
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	1B2
Calculated MW	42577

Additional Information

Gene ID	3772
Other Names	ATP-sensitive inward rectifier potassium channel 15, Inward rectifier K(+) channel Kir13, Inward rectifier K(+) channel Kir42, Potassium channel, inwardly rectifying subfamily J member 15, KCNJ15, KCNJ14
Target/Specificity	KCNJ15 (NP_002234, 290 a.a. ~ 355 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	KCNJ15 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

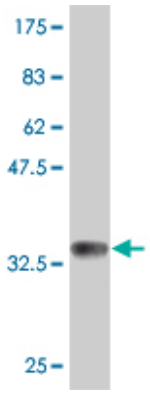
Background

Potassium channels are present in most mammalian cells, where they participate in a wide range of physiologic responses. The protein encoded by this gene is an integral membrane protein and inward-rectifier type potassium channel. The encoded protein has a greater tendency to allow potassium to flow into a cell rather than out of a cell. Three transcript variants encoding the same protein have been found for this gene.

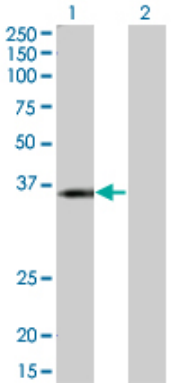
References

Identification of KCNJ15 as a susceptibility gene in Asian patients with type 2 diabetes mellitus. Okamoto K, et al. Am J Hum Genet, 2010 Jan. PMID 20085713.MUPP1 complexes renal K+ channels to alter cell surface expression and whole cell currents. Sindic A, et al. Am J Physiol Renal Physiol, 2009 Jul. PMID 19420109.Rare independent mutations in renal salt handling genes contribute to blood pressure variation. Ji W, et al. Nat Genet, 2008 May. PMID 18391953.Toward a confocal subcellular atlas of the human proteome. Barbe L, et al. Mol Cell Proteomics, 2008 Mar. PMID 18029348.Interaction of the Ca2+-sensing receptor with the inwardly rectifying potassium channels Kir4.1 and Kir4.2 results in inhibition of channel function. Huang C, et al. Am J Physiol Renal Physiol, 2007 Mar. PMID 17122384.

Images

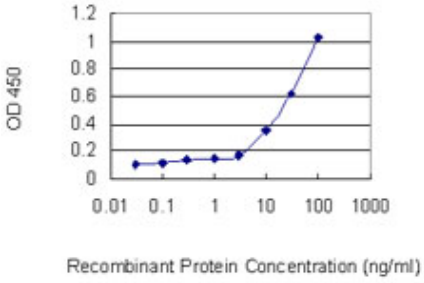


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (33 KDa) .

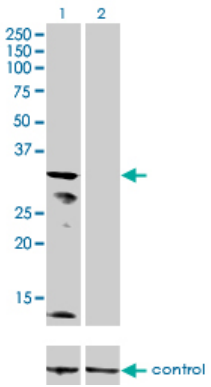


Western Blot analysis of KCNJ15 expression in transfected 293T cell line by KCNJ15 monoclonal antibody (M01), clone 1B2.

Lane 1: KCNJ15 transfected lysate(42.6 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged KCNJ15 is 3 ng/ml as a capture antibody.



Western blot analysis of KCNJ15 over-expressed 293 cell line, cotransfected with KCNJ15 Validated Chimera RNAi ((Cat # AT2599a)

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