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KCNIP2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant KCNIP2.
Catalog # AT2597a

Product Information

Application	WB, IHC
Primary Accession	Q9NS61
Other Accession	BC034685
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	3E8
Calculated MW	30907

Additional Information

Gene ID	30819
Other Names	Kv channel-interacting protein 2, KChIP2, A-type potassium channel modulatory protein 2, Cardiac voltage-gated potassium channel modulatory subunit, Potassium channel-interacting protein 2, KCNIP2, KCHIP2
Target/Specificity	KCNIP2 (AAH34685, 1 a.a. ~ 100 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500
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	KCNIP2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

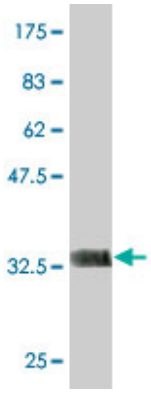
Background

This gene encodes a member of the family of voltage-gated potassium (Kv) channel-interacting proteins (KCNIPs), which belongs to the recoverin branch of the EF-hand superfamily. Members of the KCNIP family are small calcium binding proteins. They all have EF-hand-like domains, and differ from each other in the N-terminus. They are integral subunit components of native Kv4 channel complexes. They may regulate A-type currents, and hence neuronal excitability, in response to changes in intracellular calcium. Multiple alternatively spliced transcript variants encoding distinct isoforms have been identified from this gene.

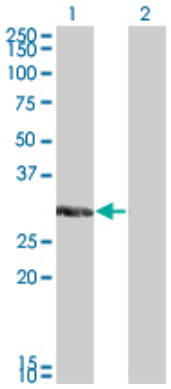
References

Impaired glycosylation blocks DPP10 cell surface expression and alters the electrophysiology of Ito channel complex. Cotella D, et al. Pflugers Arch, 2010 Jun. PMID 20354865.[Atrial myocytes KChIP2 mRNA expression in rheumatic heart disease patients with atrial fibrillation] Tan XQ, et al. Zhonghua Xin Xue Guan Bing Za Zhi, 2009 Jun. PMID 19927631.Multiple Kv channel-interacting proteins contain an N-terminal transmembrane domain that regulates Kv4 channel trafficking and gating. Jerng HH, et al. J Biol Chem, 2008 Dec 19. PMID 18957440.Potential role of antibodies against cardiac Kv channel-interacting protein 2 in dilated cardiomyopathy. Landsberger M, et al. Am Heart J, 2008 Jul. PMID 18585502.Co-expression of KCNE2 and KChIP2c modulates the electrophysiological properties of Kv4.2 current in COS-7 cells. Liu WJ, et al. Acta Pharmacol Sin, 2008 Jun. PMID 18501111.

Images

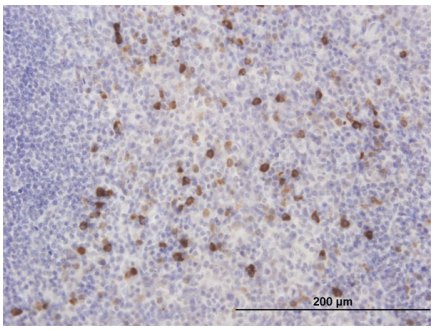


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .



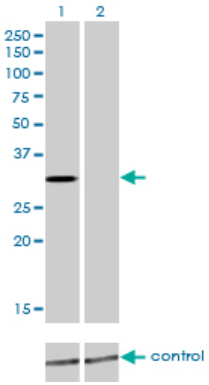
Western Blot analysis of KCNIP2 expression in transfected 293T cell line by KCNIP2 monoclonal antibody (M01), clone 3E7.

Lane 1: KCNIP2 transfected lysate(30.919 KDa).
Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to KCNIP2 on formalin-fixed paraffin-embedded human tonsil. [antibody concentration 1.5 ug/ml]

Western blot analysis of KCNIP2 over-expressed 293 cell line, cotransfected with KCNIP2 Validated Chimera RNAi ((Cat # AT2597a)



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