

**KCNIP2 Antibody (monoclonal) (M01)****Mouse monoclonal antibody raised against a partial recombinant KCNIP2.****Catalog # AT2597a****Specification**

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**KCNIP2 Antibody (monoclonal) (M01) - Product Information**

Application	WB, IHC
Primary Accession	<a href="#">O9NS61</a>
Other Accession	<a href="#">BC034685</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	30907

**KCNIP2 Antibody (monoclonal) (M01) - 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.

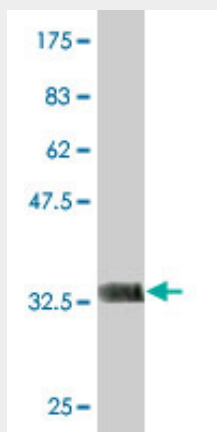
**KCNIP2 Antibody (monoclonal) (M01) - Protocols**

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

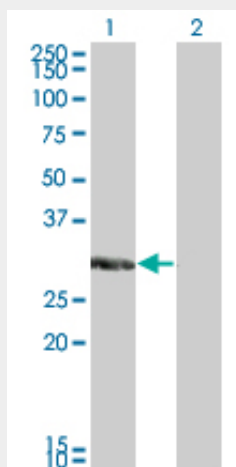
- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### KCNIP2 Antibody (monoclonal) (M01) - Images



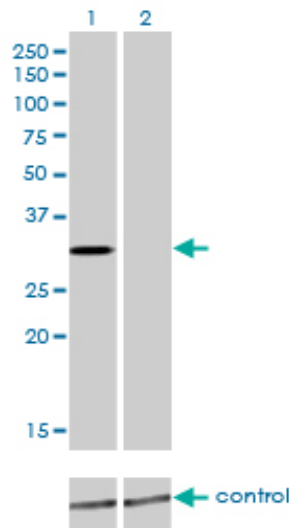
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.63 KDa) .



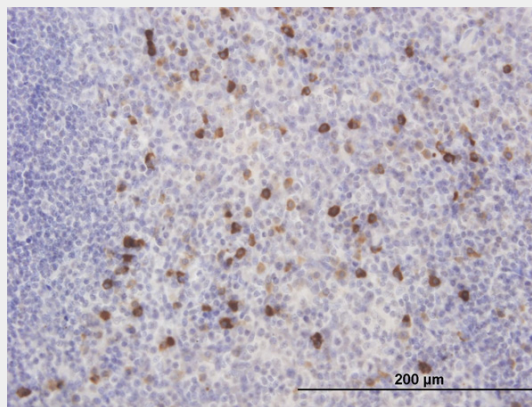
Western Blot analysis of KCNIP2 expression in transfected 293T cell line by KCNIP2 monoclonal antibody (M01), clone 3E7.

Lane 1: KCNIP2 transfected lysate(30.919 KDa).

Lane 2: Non-transfected lysate.



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



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

### KCNIP2 Antibody (monoclonal) (M01) - 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.

### KCNIP2 Antibody (monoclonal) (M01) - 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.