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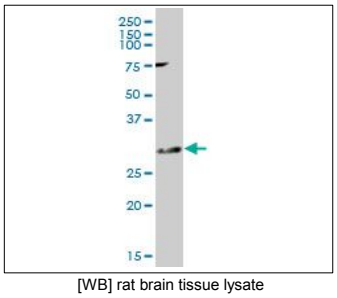
KB522

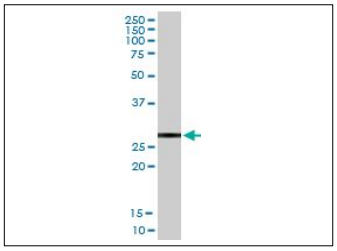
For research use only

Anti Human KCNIP2 Polyclonal Antibody

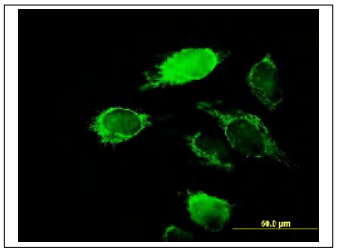
Code No.	KB522
Terget	KCNIP2
Category	Signal transduction
Gene ID	30819
Primary Source	HGNC:15522
Synonyms	KCHIP2; MGC17241; DKFZp566L1246; KCNIP2
Type	Polyclonal Antibody
Immunogen	Recombinant protein of full length Human KCNIP2
Raised in	Mouse
Myeloma	-
Clone number	-
Purification	Protein A purified
Source	Mouse Serum
Isotype	-
Cross Reactivity	Rat
Label	Unlabeled
Concentration	0.5 mg/mL
Contents (Volume)	50 µg
Buffer	PBS, pH 7.2
Storage	Store at - 20℃ long term, store at 4℃ short term. Avoid repeated freeze-thaw cycles.
Application	WB,IF



[WB] rat brain tissue lysate



[WB] KCNIP2 transfected 293T cell lysate


[IF] HeLa cell

ELISA	WB	IHC	ICC
-	1.0	-	-
IP	FCM	IF	Neutralization
-	-	10	-

(µg/mL)

Reference

1. An W.F., et al. "Modulation of A-type potassium channels by a family of calcium sensors." Nature 403:553-556(2000)
2. Ohya S., et al. "Molecular cloning and expression of the novel splice variants of K(+) channel-interacting protein 2." Biochem. Biophys. Res. Commun. 282:96-102(2001)
3. Decher N., et al. "hKChIP2 is a functional modifier of hKv4.3 potassium channels: cloning and expression of a short hKChIP2 splice variant." Cardiovasc. Res. 52:255-264(2001)

UniPlot Summary

//Function: Regulatory subunit of Kv4/D (Shal)-type voltage-gated rapidly inactivating A-type potassium channels. Probably modulates channels density, inactivation kinetics and rate of recovery from inactivation in a calcium-dependent and isoform-specific manner. In vitro, modulates KCND2/Kv4.2 and KCND3/Kv4.3 currents. Involved in KCND2 and KCND3 trafficking to the cell surface.
//Subcellular location: Isoform 1, 2, 6: Cell membrane; Lipid-anchor.
//Tissue specificity: Expressed in brain. Colocalizes with KCND2 in excitatory neurons including cortical and hippocampal CA1 pyramidal cells. Isoform 3 is expressed in heart and in umbilical vein endothelial cells. Not expressed in fetal heart.
//Sequence similarities: Belongs to the recoverin family. Contains 4 EF-hand domains.

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