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Datasheet for 200-301-F80

KChIP2 K+ channel Antibody

Overview

Description:	Anti-KChIP2 K+ channel (MOUSE) Monoclonal Antibody - 200-301-F80
Item No.:	200-301-F80
Size:	100 µg
Applications:	WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	There are four member of the KChiPs (Kv4 potassium channel interacting protein) family. They are all EF handcontaining proteins required for the traffic of channel forming Kv4 K+ subunits to the plasma membrane. KChiP2 expression has been found to be significantly decreased in hypertrophy and heart failure, and does so thru modulatin of intracellular concentration and calcineurin/NFAT pathways. It has also been found that KChiP2 also functionally modulates the Cav1.2 governed Ltype calcium channel through a direct interaction between KChiP2 and the amino-terminus of Cav1.2.
Synonyms:	KCHIP2, Kv channel-interacting protein 2, A-type potassium channel modulatory protein 2, Potassium channel-interacting protein 2
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	S60-73
Format:	IgG1

Target Details

Gene Name:	Kcnip2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Recombinant Protein

Immunogen:	KChIP2 K+ channel Antibody was produced in mice by repeated immunizations raised against a fusion protein of full length of rat KChIP2b.
Purity/Specificity:	Anti-KChIP2 K+ channel Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with KChIP2 K+ channel from Mouse, Human, and Rat based on 100% homology with the immunizing sequence. Cross-reactivity with KChIP2 K+ channel from other sources has not been determined. Ion Channels research.
Relevant Links:	• NCBI - NP_001029133.1 • GeneID - 56817 • UniProtKB - Q9JM59

Application Details

Tested Applications:	WB
Application Note:	Anti-KChIP2 K+ channel Antibody is tested for use in WB. Expect a band approximately ~35kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
IF:	1.0-10ug/mL
IHC:	0.1-1.0ug/mL
WB:	1ug/mL

Formulation

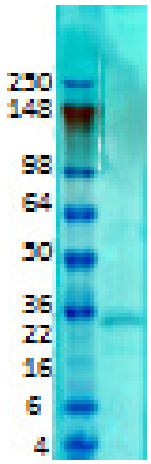
Physical State:	Liquid (sterile filtered)
Concentration:	1mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice

Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western Blot of mouse anti-KChIP2K total antibody. Lane 1: Rat Brain Tissue. Primary antibody: KChIP2K total antibody at 1:1000 for overnight at 4°C. Secondary antibody: Goat anti-mouse IgG HRP secondary antibody at 1:10,000 for 45 min at RT. Block: 5% Blotto overnight 4°C.
Predicted/Observed size: 30.9 kDa/35 kDa for KChIP2K.
Other band(s): none.

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