

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

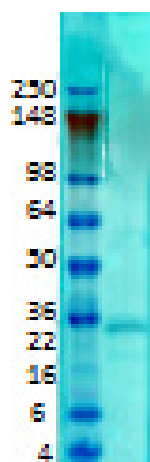
Shipping & Handling

Shipping Condition:	Dry Ice
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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.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.