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Datasheet for 200-301-F94

Kv1.4 K+ channel Antibody

Overview

Description:	Anti-Kv1.4 K+ channel (MOUSE) Monoclonal Antibody - 200-301-F94
Item No.:	200-301-F94
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	Voltage gated channels are tetrameters composed of four alpha-subunits arranged around a central pore. Each alphasubunit consists of six transmembrane segments with cytoplasmic NH2 and COOH-termini. Members of the KV1- KV4 subfamilies generate functional K+ channels in a homotetrameric configuration.
Synonyms:	HBK4, HK1, HPCN2, HUKII, KCNA4, KCNA8, PCN2, RCK4, RHK1, RK3, Voltage-gated potassium channel subunit Kv1.4, Potassium voltage-gated channel subfamily A member 4
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	S13-31
Format:	IgG1

Target Details

Gene Name:	Kcna4
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Kv1.4 K+ channel Antibody was produced in mice by repeated immunizations raised against a synthetic peptide at an internal region of rat Kv1.4.

Purity/Specificity:	Anti-Kv1.4 K+ channel Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Kv1.4 K+ channel from mouse, human, and rat based on 100% homology with the immunizing sequence. Cross-reactivity with Kv1.4 K+ channel from other sources has not been determined. Ion Channels research.
Relevant Links:	• NCBI - NP_037103.1 • GeneID - 25469 • UniProtKB - P15385

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-Kv1.4 K+ channel Antibody is tested for use in WB, IP, and IHC. Expect a band approximately ~98kDa 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

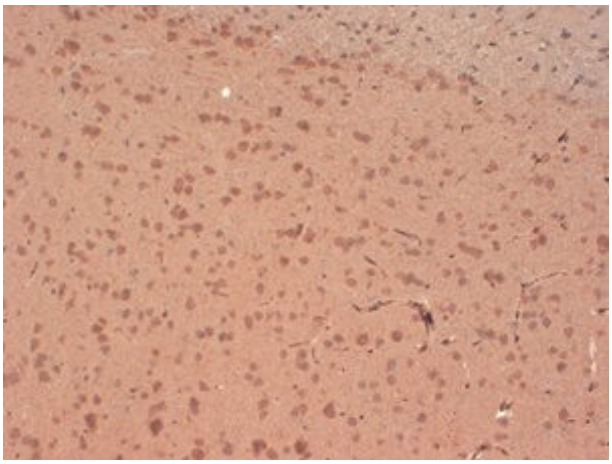
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

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



Immunohistochemistry
Immunohistochemistry of mouse anti-Kv1.4 K+ Channel antibody. Tissue: Mouse brain. Primary Antibody: Kv1.4 K+ Channel antibody at 1 µg/mL for 1h at RT. Secondary antibody: Peroxidase mouse secondary at 1:10,000 for 45 min at RT. Localization: membrane. Staining: Kv1.4 K+ Channel as brown signal.

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.