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Datasheet for 200-301-F91

Kv1.1 Extracellular Antibody

Overview

Description:	Anti-Kv1.1 Extracellular (MOUSE) Monoclonal Antibody - 200-301-F91
Item No.:	200-301-F91
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Mouse, Rat
Host Species:	Mouse

Product Details

Background:	Kv1.1, also known as potassium voltage-gated channel subfamily A member 1, is a shaker related voltage potassium channel that in humans is encoded by the SCNA1 gene. It is strongly expressed in a variety of neurons in adult rodents, and it appears to be involved in regulating neuronal excitability. Specifically it plays a role in several developmental processes including proliferation, migration and cell-cell adhesion. The Isaacs syndrome is a result of an autoimmune reaction against the Kv1.1 ion channel.
Synonyms:	KCA1, KCNA1, MBK1, MK1, RBK1, Shak, Voltage-gated potassium channel subunit Kv1.1, Potassium voltage gated channel subfamily A member 1, RBKI, RCK1
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	S36-15
Format:	IgG2b

Target Details

Gene Name:	Kcna1
Reactivity:	Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	Kv1.1 Extracellular Antibody was produced in mice by repeated immunizations raised against a synthetic peptide at an extracellular domain of rat Kv1.1.

Purity/Specificity:	Anti-Kv1.1 Extracellular Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Kv1.1 from Mouse and rat based on 100% homology with the immunizing sequence. Cross-reactivity with Kv1.1 from other sources has not been determined. Ion Channels research.
Relevant Links:	• NCBI - NP_775118.1 • GeneID - 24520 • UniProtKB - P10499

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-Kv1.1 Extracellular Antibody is tested for use in WB and IF microscopy. Expect a band approximately ~56kDa (could be 65-85 depending on glycosylation) 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:	1.0-10 ug/mL
IHC:	0.1-1.0 ug/mL
WB:	1 ug/mL

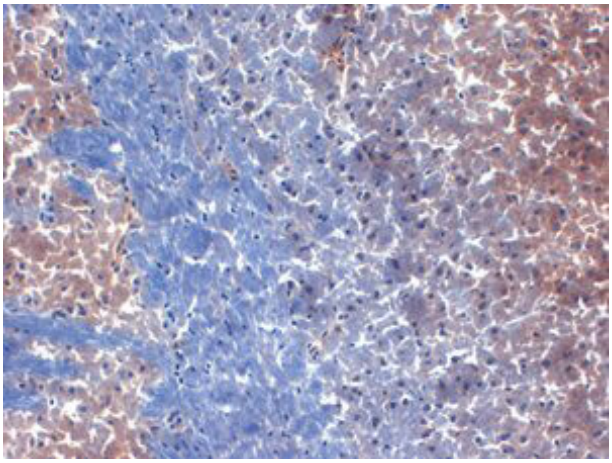
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
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-Kv1.1 Extracellular antibody. Tissue: Frozen sections of mouse brain extract. Primary Antibody: Kv1.1 Extracellular 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: Kv1.1 Extracellular as brown signal.

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