

**Datasheet for 200-301-F91****Kv1.1 Extracellular Antibody****Overview**

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

**Product Details**

<b>Background:</b>	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.
<b>Synonyms:</b>	KCA1, KCNA1, MBK1, MK1, RBK1, Shak, Voltage-gated potassium channel subunit Kv1.1, Potassium voltage gated channel subfamily A member 1, RBK1, RCK1
<b>Host Species:</b>	Mouse
<b>Clonality:</b>	Monoclonal
<b>Clone ID:</b>	S36-15
<b>Format:</b>	IgG2b

**Target Details**

<b>Gene Name:</b>	Kcna1
<b>Reactivity:</b>	Mouse, Rat
<b>Immunogen Type:</b>	Conjugated Peptide
<b>Immunogen:</b>	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

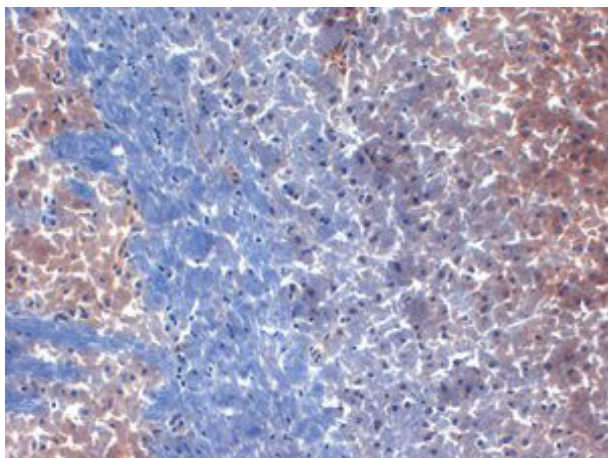
## Shipping & Handling

**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.

## Disclaimer

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