

**Datasheet for 200-301-F99****Kv2.1 Extracellular Antibody****Overview**

<b>Description:</b>	Anti-Kv2.1 Extracellular (MOUSE) Monoclonal Antibody - 200-301-F99
<b>Item No.:</b>	200-301-F99
<b>Size:</b>	100 µg
<b>Applications:</b>	IF, IHC, WB
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host Species:</b>	Mouse

**Product Details**

<b>Background:</b>	Voltage gated channels are tetrameters composed of four alpha-subunits arranged around a central pore. Each alpha- subunit consists of six transmembrane segments with cytoplasmic NH <sub>2</sub> and COOH-termini. Members of the KV1-KV4 subfamilies generate functional K <sup>+</sup> channels in a homotetrameric configuration. The KV2 subfamily consists of KV2.1 and KV2.2, and both have very similar properties. Members of the KV2 subfamily are widely expressed in neuronal tissues. They have also been reported in neurons in the dorsal root ganglia.
<b>Synonyms:</b>	Shab, Kv2.1, DRK1PC, Kcr1-1, Kcnb1, Potassium voltage-gated channel subfamily B member 1, Delayed rectifier potassium channel 1, DRK1, Voltage-gated potassium channel subunit Kv2.1
<b>Host Species:</b>	Mouse
<b>Clonality:</b>	Monoclonal
<b>Clone ID:</b>	S39-25
<b>Format:</b>	IgG2a

**Target Details**

<b>Gene Name:</b>	Kcnb1
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Immunogen Type:</b>	Conjugated Peptide
<b>Immunogen:</b>	Kv2.1 Extracellular Antibody was produced in mice by repeated immunizations raised against a synthetic peptide corresponding to an internal region (extracellular S1-S2 loop) of rat Kv2.1.

**Purity/Specificity:** Anti-Kv2.1 Extracellular Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Kv2.1 from Mouse, human, and rat based on 100% homology with the immunizing sequence. Cross-reactivity with Kv2.1 from other sources has not been determined. Ion Channels research.

**Relevant Links:**

- [NCBI - NP\\_037318](#)
- [GeneID - 25736](#)
- [UniProtKB - P15387](#)

## Application Details

**Tested Applications:** IF, IHC, WB

**Application Note:** Anti-Kv2.1 Extracellular Antibody is tested for use in WB, IHC, and IF microscopy. Expect a band approximately ~105-125kDa on specific lysates (varies with cell background due to phosphorylation). 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:** 1:100

**IHC:** 1:1000

**WB:** 1:1000

## 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.

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## Images



### Immunohistochemistry

Immunohistochemistry of mouse anti-Kv2.1 Extracellular antibody. Tissue: Mouse Brain Tissue. Primary Antibody: Kv2.1 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: Kv2.1 Extracellular as brown signal.

## Disclaimer

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