Datasheet for 200-301-G00

# Kv2.2 Antibody

## Overview

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| **Description:** | Anti-Kv2.2 (MOUSE) Monoclonal Antibody - 200-301-G00 |
| **Item No.:** | 200-301-G00 |
| **Size:** | 100 µg |
| **Applications:** | IHC, WB |
| **Reactivity:** | Human, Mouse, Rat |
| **Host Species:** | Mouse |

## Product Details

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| **Background:** | 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 NH2 and COOH-termini. Members of the KV1-KV4 subfamilies generate functional K+ 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. |
| **Synonyms:** | KCNB2, potassium voltage gated channel subfamily B member 2, CDRK, Voltage-gated potassium channel subunit Kv2.2 |
| **Host Species:** | Mouse |
| **Clonality:** | Monoclonal |
| **Clone ID:** | S37-89 |
| **Format:** | IgG2a |

## Target Details

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| **Gene Name:** | Kcnb2 |
| **Reactivity:** | Human, Mouse, Rat |
| **Immunogen Type:** | Recombinant Protein |
| **Immunogen:** | Kv2.2 Antibody was produced in mice by repeated immunizations raised against a fusion protein corresponding to the n-terminus region of rat kv2.2. |

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| **Purity/Specificity:** | Anti-Kv2.2 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Kv2.2 from Mouse, human, and rat based on 100% homology with the immunizing sequence. Cross-reactivity with Kv2.2 from other sources has not been determined. Ion Channels research. |
| **Relevant Links:** | • NCBI - NP_446452.2<br>• GeneID - 117105<br>• UniProtKB - Q63099 |

## Application Details

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| **Tested Applications:** | IHC, WB |
| **Application Note:** | Anti-Kv2.2 Antibody is tested for use in WB, IP, and IHC. Expect a band approximately ~125kDa 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 |
| **IP:** | User Optimized |
| **WB:** | 1ug/mL |

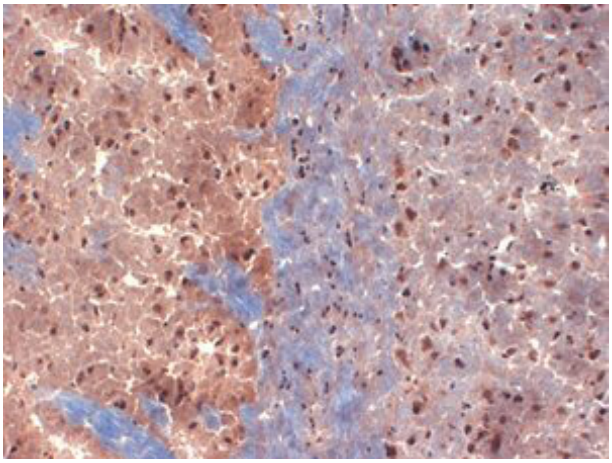
## Formulation

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| **Physical State:** | Liquid (sterile filtered) |
| **Concentration:** | 1.0 mg/mL by UV absorbance at 280 nm |

## Shipping & Handling

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| **Shipping Condition:** | Wet 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-Kv2.2 antibody. Tissue: Frozen Sections of Mouse Brain extract. Primary Antibody: Kv2.2 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: Kv2.2 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.