

Datasheet for 200-301-G08**KvBeta2 K⁺ channel Antibody****Overview**

Description:	Anti-KvBeta2 K ⁺ channel (MOUSE) Monoclonal Antibody - 200-301-G08
Item No.:	200-301-G08
Size:	100 µg
Reactivity:	Human, Mouse, Rat, Zebrafish
Host Species:	Mouse

Product Details

Background:	Depolarization-activated potassium channels (Kv) play a major role in shaping the electrical signals in the nervous system. KvBeta2, otherwise known as potassium voltage gated channel, shaker-related subfamily beta member 2, is encoded by the KCNAB2 gene in humans. The KvBeta channels are also members of the aldo-keto reductase (AKR) subfamily. These proteins regulated inactivation and membrane localization of Kv1 and Kv4 channels. Specifically Kv2beta2 contributes to regulation of excitability in vivo, although not directly through either chaperone-like or typical AKR catalytic activity.
Synonyms:	KCNA2B, SCNAB2, KCNK2, Kv Beta2, HKvbeta2, AKR6A5, Voltage-gated potassium channel subunit beta-2, K(+) channel subunit beta-2, Kv-beta-2, Neuroimmune protein F5, Kcnab2, Ckbeta2, I2rf5, Kcnb3, Kvb1
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	S17-70
Format:	IgG1

Target Details

Gene Name:	Kcnab2
Reactivity:	Human, Mouse, Rat, Zebrafish
Immunogen Type:	Recombinant Protein
Immunogen:	KvBeta2 K ⁺ channel Antibody was produced in mice by repeated immunizations raised against a fusion protein corresponding to the full length of rat Kvβ2.

Purity/Specificity: Anti-KvBeta2 K+ channel Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with KvBeta2 K+ channel from Mouse, Human, Zebrafish, and rat based on 100% homology with the immunizing sequence. Cross-reactivity with KvBeta2 K+ channel from other sources has not been determined. Ion Channels research.

Relevant Links:

- [NCBI - NP_059000.1](#)
- [GeneID - 29738](#)
- [UniProtKB - P62483](#)

Application Details

Application Note: Anti-KvBeta2 K+ channel Antibody is suitable for use in WB, IP, and IHC. Expect a band approximately ~39kDa(major), ~41kDa (Minor) 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

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.

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.