

Datasheet for 200-301-E94**BK beta 4 Antibody****Overview**

Description:	Anti-BK beta 4 (MOUSE) Monoclonal Antibody - 200-301-E94
Item No.:	200-301-E94
Size:	100 µg
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	BK channels contribute to electrical impulses, proper signal transmission of information and regulation of neurotransmitter release. A gain of function mutation in the pore-forming alpha subunit of the BK channel was linked to human neurological diseases. Findings suggest that the distribution of the beta subunits in the brain can modulate the BK channels to contribute to the pathophysiology of epilepsy and dyskinesia. This has major implications on other physiological processes in tissues other than the brain.
Synonyms:	calcium-activated potassium channel subunit beta-4, BK channel subunit beta-4, BKbeta4, Calcium-activated potassium channel, subfamily M subunit beta-4, Charybdotoxin receptor subunit beta-4, K(VCA)beta-4, Maxi K channel subunit beta-4, Slo-beta-4
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	S18A-3
Format:	IgG2a

Target Details

Gene Name:	Kcnmb4
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Recombinant Protein
Immunogen:	BK Beta 4 Antibody was produced in mice by repeated immunizations with a fusion protein (entire extracellular domain) of mouse BKBeta4.

Purity/Specificity: Anti-BK Beta4 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with BK Beta4 from Human, Mouse, and Rat based on 100% homology with the immunizing sequence. No cross-reactivity against BKBeta1, BKBeta2 or BKBeta3. Cross-reactivity with BK Beta4 from other sources has not been determined. Ion Channels research.

Relevant Links:

- [NCBI - NP_067427](#)

Application Details

Application Note: Anti-BK Beta4 Antibody is suitable for use in WB, IP, IF, and IHC. Antibody is provided in PBS pH 7.4. Expect a band approximately ~24kDa 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: 1 ug/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1.0 mg/mL by UV absorbance at 280 nm

Buffer: See application note.

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.

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.