

Datasheet for 200-301-G15**mSlo maxi- K⁺ channel Antibody****Overview**

Description:	Anti-mSlo maxi- K ⁺ channel (MOUSE) Monoclonal Antibody - 200-301-G15
Item No.:	200-301-G15
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human, Mouse, Rat, Zebrafish
Host Species:	Mouse

Product Details

Background:	The Slo1 channel is a novel potassium channel that is regulated by both Ca ²⁺ and voltage. It is a homolog to the pH and voltage-regulated Slo3 channel. Four distinct subunits composing the KCNMB family are known to regulate the function and expression of Slo1 channels. Slo1 has been shown to be involved in neurotransmitter release and ethanol response. It has been reported that SLO1 also has a critical role in muscles- the inactivation of the slo-1 gene in muscles leads to phenotypes similar to those caused by mutations of the dystrophin homologue dys-1.
Synonyms:	Slo, BKCa, Slo1, mSlo, MaxiK, mSlo1, 5730414M22Rik, Kcnma1, Calcium-activated potassium channel subunit alpha-1, BK channel, BKCA alpha, Calcium-activated potassium channel, subfamily M subunit alpha-1, K(VCA)alpha, KCa1.1, Maxi K channel, Slo-alpha, Slo1
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	S6-60
Format:	IgG2a

Target Details

Gene Name:	Kcnma1
Reactivity:	Human, Mouse, Rat, Zebrafish
Immunogen Type:	Recombinant Protein

Immunogen:	mSlo maxi- K+ channel Antibody was produced in mice by repeated immunizations raised against a fusion protein corresponding to the cytoplasmic C-terminus region of mouse Slo1.
Purity/Specificity:	Anti-mSlo maxi- K+ channel Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Slo from Mouse, Human, Rat, and Zebrafish based on 100% homology with the immunizing sequence. Cross-reactivity with Slo from other sources has not been determined. Ion Channels research.
Relevant Links:	• NCBI - NP_034740.2 • GeneID - 16531 • UniProtKB - Q08460

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-mSlo maxi- K+ channel Antibody is tested for use in WB, IP, and IHC. Expect a band approximately ~110-130kDa on specific lysates. Epitope mapped within amino acids 690-715. 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:	1mg/mL by UV absorbance at 280 nm
Buffer:	1X PBS, pH 7.4
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Wet Ice
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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.

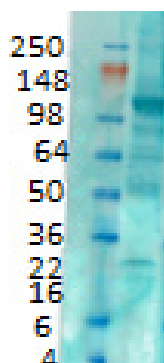
Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy

Immunohistochemistry of mouse anti-mSlo maxi K+ channel antibody. Tissue: Mouse cerebellum tissue. Primary Antibody: mSlo maxi K+ channel 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: mSlo maxi K+ channel as white signal.



Western Blot

Western Blot of mouse anti-mSlo maxi-K+ channel antibody. Lane 1: Rat Brian Membrane. Primary antibody: mSlo maxi K+ channel antibody at 1:1000 for overnight at 4°C. Secondary antibody: Goat anti-mouse IgG HRP secondary antibody at 1:10,000 for 45 min at RT. Block: 5% Blotto overnight 4°C. Predicted/Observed size: 134.3 kDa/110-130kD. Other band(s): none.

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.