

Datasheet for 200-301-G57**Trpm7 Antibody****Overview**

Description:	Anti-TRPM7 (MOUSE) Monoclonal Antibody - 200-301-G57
Item No.:	200-301-G57
Size:	100 µg
Applications:	IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	TRPs, mammalian homologs of the <i>Drosophila</i> transient receptor potential (<i>trp</i>) protein, are ion channels that are thought to mediate capacitative calcium entry into the cell. TRP-PLIK is a protein that is both an ion channel and a kinase. As a channel, it conducts calcium and monovalent cations to depolarize cells and increase intracellular calcium. As a kinase, it is capable of phosphorylating itself and other substrates. The kinase activity is necessary for channel function, as shown by its dependence on intracellular ATP and by the kinase mutants.
Synonyms:	CHAK antibody, CHAK1 antibody, LTRPC7 antibody, TRP PLIK antibody, Channel kinase 1 antibody, Transient receptor potential cation channel subfamily M member 7 antibody, Channel-kinase 1 antibody, Long transient receptor potential channel 7 antibody, LTrpC-7 antibody, Transient receptor potential-phospholipase C-interacting kinase antibody, TRP-PLIK antibody, Trpm7 antibody
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	S74
Format:	IgG1

Target Details

Gene Name:	Trpm7
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	TRPM7 Antibody was produced in mice by repeated immunizations raised against a fusion proteins corresponding to the c-terminus region of mouse TrpM7.
Purity/Specificity:	Anti-TRPM7 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with TRPM7 from Human, Rat, and Mouse based on 100% homology with the immunizing sequence. No cross-reactivity against TrpM6. Cross-reactivity with TRPM7 from other sources has not been determined. Channels and Transporters research.
Relevant Links:	• NCBI - NP_001157797.1 • GeneID - 58800 • UniProtKB - Q923J1

Application Details

Tested Applications:	IF, IHC, WB
Application Note:	Anti-TRPM7 Antibody is tested for use in WB (transiently transfected cells only), IHC-P, and IF/ICC microscopy. Expect a band approximately ~220kDa on specific lysates, in extracts of cells transiently transfected with TrpM7. 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:	1.0 mg/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

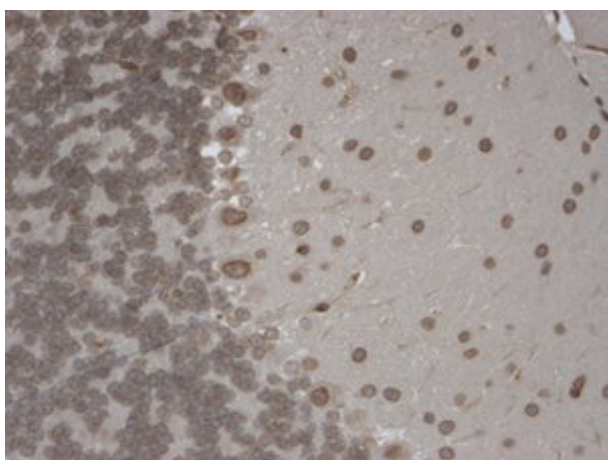
Shipping & Handling

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.

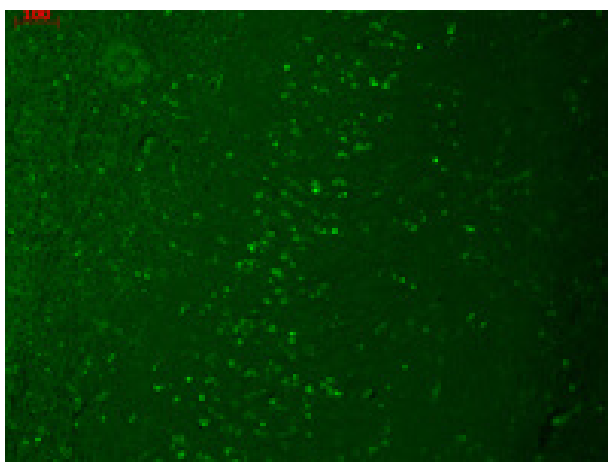
Expiration: Expiration date is one (1) year from date of receipt.

Images



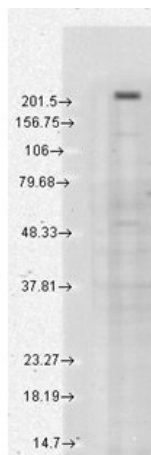
Immunohistochemistry

Immunohistochemistry of mouse anti-TRPM7 antibody.
Tissue: Mouse Brain. Fixation: N/A. Antigen Retrieval: not required. Primary Antibody: TRPM7 antibody at 1 µg/mL for 1h at RT. Secondary antibody: Peroxidase mouse secondary at 1:10,000 for 45 min at RT. Localization: Cell Membrane. Staining: TRPM7 as brown signal.



Immunofluorescence Microscopy

Immunofluorescence Microscopy of mouse anti-TRPM7 antibody. Tissue: Human Hippocampal tissue. Fixation: N/A. Antigen Retrieval: not required. Primary Antibody: TRPM7 antibody at 1 µg/mL for 1h at RT. Secondary antibody: Fluorescence mouse secondary at 1:10,000 for 45 min at RT. Localization: Membrane. Staining: TRPM7 as green signal.

**Western Blot**

Western Blot of mouse anti-TRMP7 antibody. Lane 1: Human Cell Line Mix. Primary antibody: TRMP7 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: 212kDa/220kD. 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.