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 Drosophila transient receptor potential (trp) 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

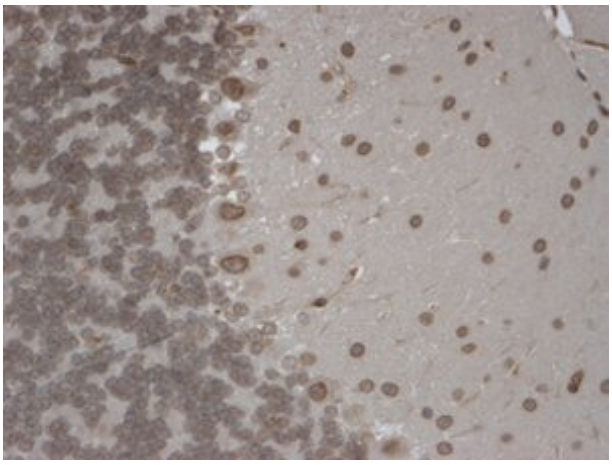
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	1X PBS, pH 7.4
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

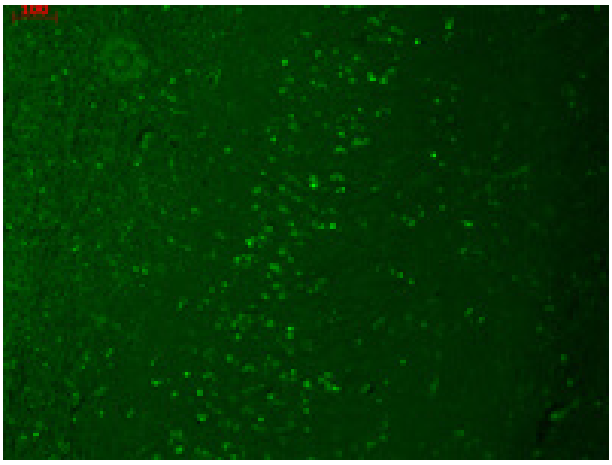
Shipping Condition:	Wet Ice

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.

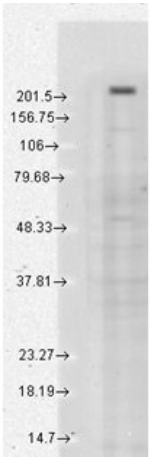
Images



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.

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