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Datasheet for 200-301-G58

TrpV3 Antibody

Overview

Description:	Anti-TRPV3 (MOUSE) Monoclonal Antibody - 200-301-G58
Item No.:	200-301-G58
Size:	100 µg
Applications:	IF, IHC, IP, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	The TRPV3 protein belongs to a family of nonselective cation channels that function in a variety of processes, including temperature sensation and vasoregulation. The thermosensitive members of this family are expressed in subsets of sensory neurons that terminate in the skin, and are activated at distinct physiological temperatures. This channel is activated at temperatures between 22 and 40 degrees C. The gene lies in close proximity to another family member (TRPV1) gene on chromosome 17, and the two encoded proteins are thought to associate with each other to form heteromeric channels.
Synonyms:	transient receptor potential cation channel subfamily V member 3, VRL3, sensitive channel TRPV3, vanilloid receptor 2
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	N15/4
Format:	IgG2a

Target Details

Gene Name:	Trpv3
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	TrpV3 Antibody was produced in mice by repeated immunizations raised against a synthetic peptide corresponding to the c-terminus region of rat TrpV3.
Purity/Specificity:	Anti-TrpV3 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with TrpV3 from Human, Rat, and Mouse based on 100% homology with the immunizing sequence. Recognizes constitutive and inducible plants Hsp70 (Hsc70/Hsp72). Cross-reactivity with TrpV3 from other sources has not been determined. Channels and Transporters research.
Relevant Links:	• NCBI - NP_001020928 • GeneID - 497948 • UniProtKB - Q4QYD9

Application Details

Tested Applications:	IF, IHC, IP, WB
Application Note:	Anti-TrpV3 Antibody is tested for use in WB, IP, IHC-P, and IF microscopy. Expect a band approximately ~70kDa 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:	1-10ug/mL

Formulation

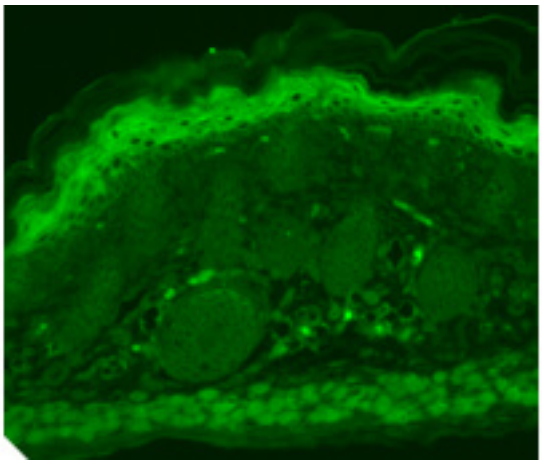
Physical State:	Liquid (sterile filtered)
Concentration:	1mg/mL by UV absorbance at 280 nm
Buffer:	1X PBS, pH 7.4
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

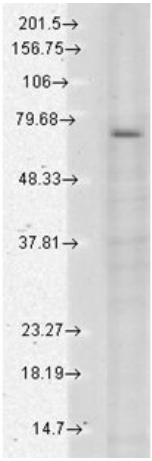
Shipping Condition:	Wet Ice

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-TrpV3 antibody. Tissue: Human Hippocampal. Fixation: N/A. Antigen Retrieval: not required. Primary Antibody: TrpV3 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: TrpV3 as green signal.



Western Blot
Western Blot of mouse anti-TrpV3 antibody. Lane 1: Human Cell Line Mix. Primary antibody: Trp 3 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: 90.2 kDa/70kD. 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.