

Datasheet for 200-301-G55**TrpC5 Antibody****Overview**

Description:	Anti-TRPC5 (MOUSE) Monoclonal Antibody - 200-301-G55
Item No.:	200-301-G55
Size:	100 µg
Applications:	IHC, IP, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	Transient receptor potential cation channel, subfamily C, member 5, also known as TRPC5, is a subtype of the TRPC family of mammalian transient receptor potential ion channels. Homomultimeric TRPC5 and heteromultimeric TRPC5-TRPC1 channels are activated by extracellular reduced thioredoxin. This activation probably plays a role in rheumatoid arthritis. It has also been recently found to be involved in the action on anesthetics such as chloroform, halothane and propofol.
Synonyms:	Htrp5, Short transient receptor potential channel 5, TRP5, transient receptor protein 5
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	N67/15
Format:	IgG2b

Target Details

Gene Name:	TrpC5
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	TrpC5 Antibody was produced in mice by repeated immunizations raised against a synthetic peptide corresponding to a near c-terminus region of rat TrpC5 (also known as short transient receptor potential channel 5, and Htrp5).

Purity/Specificity: Anti-TrpC5 Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with TrpC5 from human, mouse, and rat based on 100% homology with the immunizing sequence. Cross-reactivity with TrpC5 from other sources has not been determined. Ion Channels research.

Relevant Links:

- [NCBI - NP_543174.1](#)
- [GeneID - 140933](#)
- [UniProtKB - Q8VD38](#)

Application Details

Tested Applications: IHC, IP, WB

Application Note: Anti-TrpC5 Antibody is tested for use in WB, IHC-P, and IP. Expect a band approximately ~110kDa 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: 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

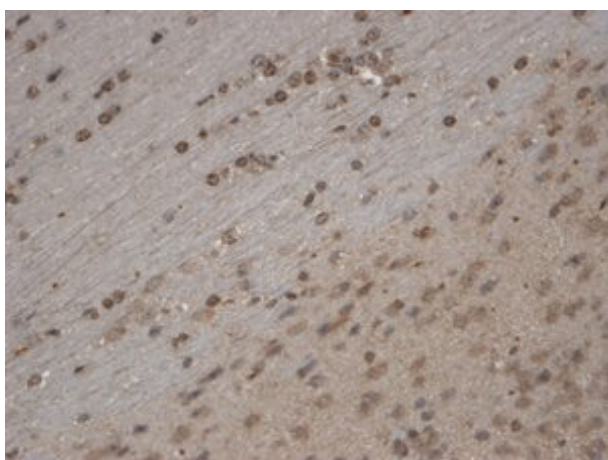
Stabilizer: 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition: Wet Ice

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-TrpC5 antibody.
Tissue: Mouse Brain. Fixation: N/A. Antigen Retrieval: not required. Primary Antibody: TrpC5 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: TrpC4 as brown signal.

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.