

Datasheet for ABIN2485379
anti-TRPC5 antibody (AA 827-845) (FITC)



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1 Validation

4 Images

Overview

Quantity:	100 µg
Target:	TRPC5
Binding Specificity:	AA 827-845
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TRPC5 antibody is conjugated to FITC
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Antibody Array (AA)

Product Details

Immunogen:	Synthetic peptide amino acids 827-845 of human TrpC5 (also known as short transient receptor potential channel 5, and Htrp5)
Clone:	N67-15 (Formerly S67-15)
Isotype:	IgG2b
Specificity:	Detects ~110 kDa.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified

Target Details

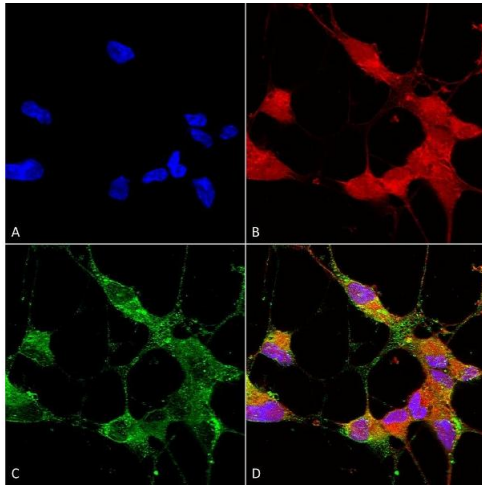
Target:	TRPC5
Alternative Name:	TRPC5 (TRPC5 Products)
Background:	Transient receptor potential cation channel, subfamily C, member 5, also known as TRPC5, is a subtype of the TRPC family of mammalian transient receptor potential ion channels. Homo-multimeric TRPC5 and hetero-multimeric TRPC5-TRPC1 channels are activated by extracellular reduced thioredoxin (1). This activation probably plays a role in rheumatoid arthritis. It has also been recently found to be involved in the action on anaesthetics such as chloroform, halothane and propofol (2).
Gene ID:	7224
NCBI Accession:	NP_036603
UniProt:	Q9UL62

Application Details

Application Notes:	<ul style="list-style-type: none">• WB (1:1000)• IHC (1:1000)• ICC/IF (1:100)• optimal dilutions for assays should be determined by the user.
Comment:	1 µg/ml of ABIN2485379 was sufficient for detection of TrpC5 in 20 µg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only

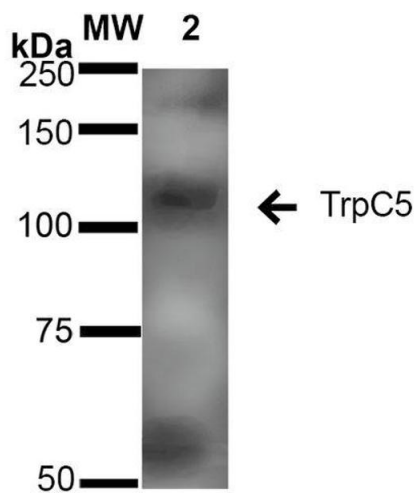
Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.09 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C
Storage Comment:	Conjugated antibodies should be stored at 4°C



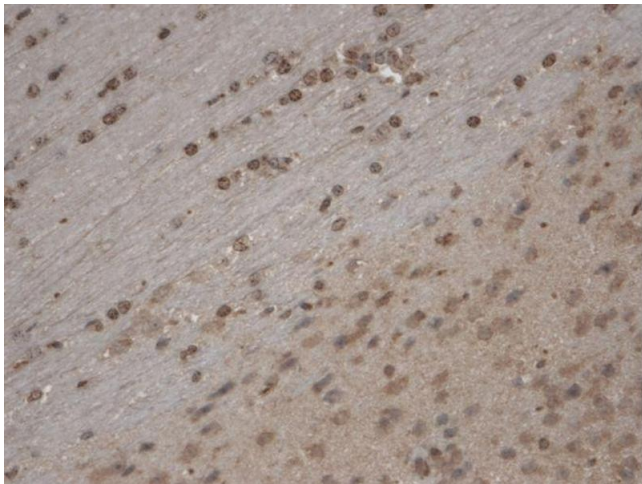
Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-TrpC5 Monoclonal Antibody, Clone N67/15 (ABIN2485379). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-TrpC5 Monoclonal Antibody (ABIN2485379) at 1:50 for overnight at 4 °C with slow rocking. Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain, Hoechst (blue) nuclear stain at 1:800, 1.6 mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) TrpC5 Antibody (D) Composite.



Western Blotting

Image 2. Western Blot analysis of Rat Brain Membrane showing detection of ~110 kDa TrpC5 protein using Mouse Anti-TrpC5 Monoclonal Antibody, Clone S67-15 . Lane 1: Molecular Weight Ladder (MW). Lane 2: Rat Brain Membrane cell lysate. Load: 20 µg. Block: 2% BSA and 2% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-TrpC5 Monoclonal Antibody at 1:1000 for 16 hours at 4°C. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:100 for 60 min at RT. Color Development: ECL solution for 6 min in RT. Predicted/Observed Size: ~110 kDa. Other Band(s): 160kDa, 60kDa.



Immunohistochemistry

Image 3. Immunohistochemistry analysis using Mouse Anti-TrpC5 Monoclonal Antibody, Clone S67-15 . Tissue: Brain Slice. Species: Mouse. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-TrpC5 Monoclonal Antibody at 1:1000 for 1 hour at RT. Secondary Antibody: HRP/DAB Detection System: Biotinylated Goat Anti-Mouse, Streptavidin Peroxidase, DAB Chromogen (brown) for 30 minutes at RT. Counterstain: Mayer Hematoxylin (purple/blue) nuclear stain at 250-500 μ l for 5 minutes at RT. Localization: Nuclear staining. Magnification: 10X.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN2485379.



Successfully validated (Immunofluorescence (IF))

by [Experimentelle Anästhesiologie, Universitätsklinikum Erlangen](#)

Report Number: 103875

Date: Apr 10 2019

Target:	TRPC5
Lot Number:	1007
Method validated:	Immunofluorescence (IF)
Positive Control:	C57Bl6/J Mouse WT Trigeminal Ganglion (TG)
Negative Control:	Mouse TRPC5 knock-out Trigeminal Ganglion
Notes:	ABIN2485379 specifically stains TRPC5 positive neurons in fixed murine trigeminal ganglia.
Primary Antibody:	ABIN2485379
Protocol:	<ul style="list-style-type: none">• Surgical plane of anesthesia with Ketamine and Xylazine.• Perfuse mouse transcardially with<ul style="list-style-type: none">◦ 1ml/g BW ice cold PBS◦ 1ml/g BW 4% PFA.• Postfix skull base in 4% PFA ON at 4°C.• Harvest TGs in PBS.• Wash TGs 4x with PBS for 30min at RT.• Incubate TGs with rotator in blocking solution (PBS containing 1% BSA, 0.5% Triton X-100) ON at 4°C.• Incubate TGs with rotator with primary FITC-conjugated mouse anti-TRPC5 antibody (antibodies-online, ABIN2485379, lot 1007) diluted 1:500 in blocking solution ON at 4°C.• Wash TGs 4x with PBS for 30min at RT.• Mount TGs with 1% low melting agarose.• Whole Organ 2-Photon Imaging with a Zeiss LSM880 NLO Intravital Microscope; Settings: Excitation Wavelength: 940 nm, Detection: 500-550 nm for wt and TRPC5 ko TGs.
Experimental Notes:	<ul style="list-style-type: none">• In wt mice antibody concentrations of 1:100, 1:500, 1:1000 and 1:2000 were tested with best results using a concentration of 1:500.• ABIN2485379 is suitable for whole organ IHC. TRPC5 positive Neurons show clear cytoplasmic and membranous staining. No neuronal staining visible. Residues of antibody visible in vasculature due to tissue manipulation during washing.

Validation image no. 1 for anti-Transient Receptor Potential Cation Channel, Subfamily C, Member 5 (TRPC5) (AA 827-845) antibody (FITC) (ABIN2485379)

A. Representative image of ophthalmic region of trigeminal ganglion of C57Bl6/J mouse stained with ABIN2485379 diluted 1:500. B. Representative image of Z-Stack of ophthalmic region of trigeminal ganglion of TRPC5 ko stained with ABIN2485379 diluted 1:500.

