

Product Datasheet

TrpC5 Antibody: APC (orb148874)

Description	Mouse monoclonal to TrpC5 (APC). 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. 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..
Species/Host	Mouse
Reactivity	Human, Mouse, Rat
Conjugation	APC
Tested Applications	ICC, IF, IHC
Immunogen	Synthetic peptide amino acids 827-845 of human TrpC5 (also known as short transient receptor potential channel 5, and Htrp5)
Target	TRPC5
Preservatives	95.64mM Phosphate, 2.48mM MES and 2mM EDTA
Concentration	1 mg/ml
Storage	Conjugated antibodies should be stored according to the product label
Note	For research use only
Application notes	1 µg/ml of SMC-344 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.
Isotype	IgG2b
Clonality	Monoclonal

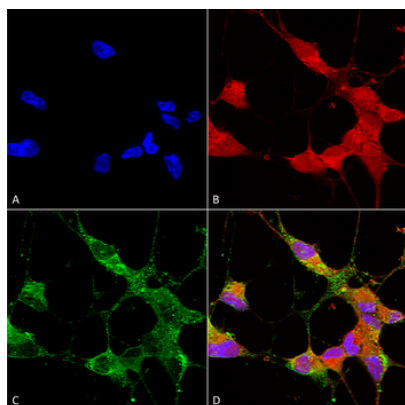
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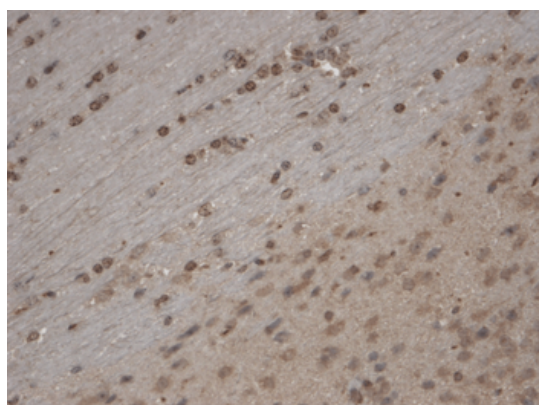
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Clone Number	N67/15 (Formerly sold as S67-15)
MW	110kDa
Uniprot ID	Q9UL62
NCBI	NP_036603.1
Entrez	7224
Dilution Range	WB (1:1000), IHC (1:1000), ICC/IF (1:100)
Expiration Date	12 months from date of receipt.



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-TrpC5 Monoclonal Antibody, Clone N67/15. Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-TrpC5 Monoclonal Antibody 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, 1.6mM for 20 min at RT. (A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) TrpC5 Antibody (D) Composite.



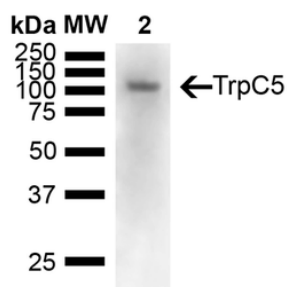
Immunohistochemistry analysis using Mouse Anti-TrpC5 Monoclonal Antibody, Clone N67/15. Tissue: Brain Slice. Species: Mouse. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-TrpC5 Monoclonal Antibody at 1:1000 for 1 hour at RT. Secondary Antibody: HRP/DAB Detection 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 µl for 5 minutes at RT. Localization: Nuclear staining. Magnification: 10X.

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Western Blot analysis of Mouse brain showing detection of 110 kDa TrpC5 protein using Mouse Anti-TrpC5 Monoclonal Antibody, Clone N67/15. Lane 1: Molecular Weight Ladder (MW). Lane 2: Mouse Brain. Load: 15 ug. Block: 5% Skim Milk powder in TBST. Primary Antibody: Mouse Anti-TrpC5 Monoclonal Antibody at 1:1000 for Overnight at 4°C. Secondary Antibody: Goat anti-mouse IgG:HRP at 1:7000 for 1 hour at RT with shaking. Color Development: Chemiluminescent for HRP (Moss) for 5 min in RT. Predicted/Observed Size: 110 kDa.

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