

TrpC5 Antibody
TRPC5 Antibody, Clone S67-15
Catalog # ASM10220

Specification

TrpC5 Antibody - Product Information

Application	IHC, WB
Primary Accession	O9UL62
Other Accession	NP_036603.1
Host	Mouse
Isotype	IgG2b
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal

Description

Mouse Anti-Human TrpC5 Monoclonal IgG2b

Target/Specificity

Detects ~110kDa.

Other Names

Htrp5 Antibody, Short transient receptor potential channel 5 Antibody, TRP5 Antibody

Immunogen

Synthetic peptide amino acids 827-845 of human TrpC5 (also known as short transient receptor potential channel 5, and Htrp5)

Purification

Protein G Purified

Storage **-20°C**

Storage Buffer

PBS pH7.4, 50% glycerol, 0.09% sodium azide

Shipping Temperature **Blue Ice or 4°C**

Certificate of Analysis

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.

Cellular Localization

Membrane

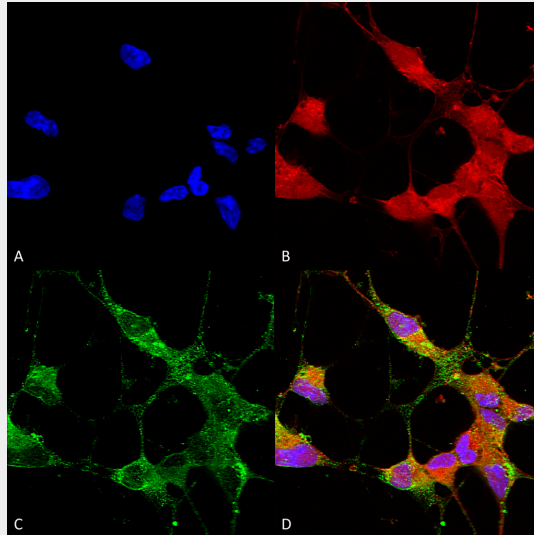
TrpC5 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

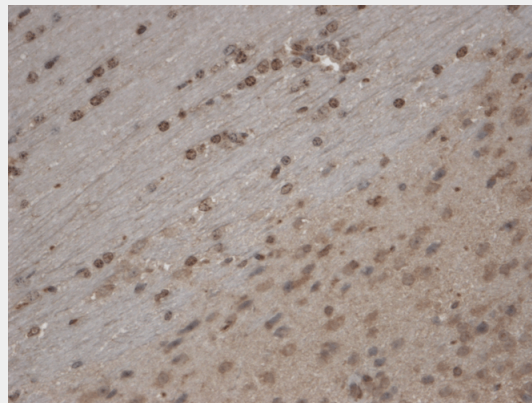
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

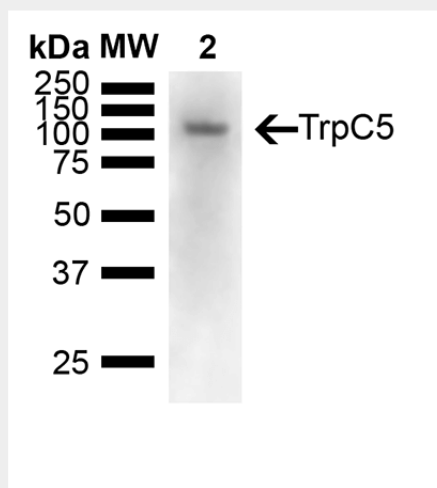
TrpC5 Antibody - Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-TrpC5 Monoclonal Antibody, Clone N67/15 (ASM10220). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-TrpC5 Monoclonal Antibody (ASM10220) 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 (ASM10220). Tissue: Brain Slice. Species: Mouse. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-TrpC5 Monoclonal Antibody (ASM10220) 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.



Western Blot analysis of Mouse brain showing detection of 110 kDa TrpC5 protein using Mouse Anti-TrpC5 Monoclonal Antibody, Clone N67/15 (ASM10220). 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 (ASM10220) at 1:1000 for Overnight at 4C. 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.

TrpC5 Antibody - 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).

TrpC5 Antibody - References

1. Xu S.Z., et al. (2008) Nature 451(7174): 69-72.
2. Bahnasi Y.M., et al. (2008) Br J. Pharamcol. 153(7): 1505-1512.