

TrpC5 Antibody

TRPC5 Antibody, Clone S67-15 Catalog # ASM10220

Specification

TrpC5 Antibody - Product Information

Application WB, IHC, IP
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)

PurificationProtein 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

 $1 \mu g/ml$ 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

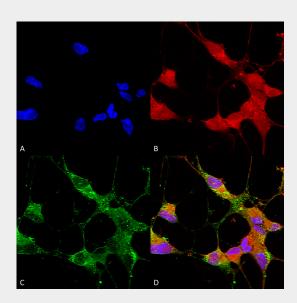
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

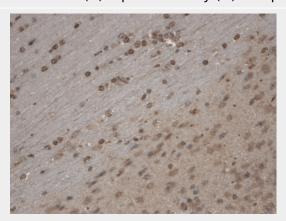


- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

TrpC5 Antibody - Images

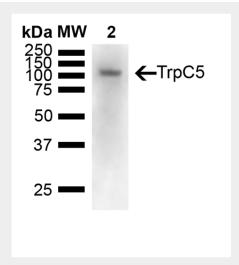


Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-TrpC5 Monoclonal Antibody, Clone N67/15 (ASM10220). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-TrpC5 Monoclonal Antibody (ASM10220) at 1:50 for overnight at 4°C with 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 μ l 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.