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TrpC4 Antibody
TRPC4 Antibody, Clone S77-15
Catalog # ASM10193

Specification

TrpC4 Antibody - Product Information

Application	**WB, IHC, ICC, IP, AM**
Primary Accession	O35119
Other Accession	NP_001076584.1
Host	**Mouse**
Isotype	**IgG1**
Reactivity	**Human, Mouse, Rat**
Clonality	**Monoclonal**

Description
Mouse Anti-Rat TrpC4 Monoclonal IgG1

Target/Specificity
Detects ~110kDa.

Other Names
CCE1 Antibody, HTRP4 Antibody, STRPC4 Antibody, TRP4 Antibody, TRPC 4 Antibody, transient receptor potential 4 Antibody

Immunogen
Synthetic peptide amino acids 930-947 of rat TrpC4

Purification
Protein G Purified

Storage	**-20ºC**

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

Shipping Temperature	**Blue Ice or 4ºC**

Certificate of Analysis
1 µg/ml of SMC-315 was sufficient for detection of TrpC4 in 10 µg of COS cell lysate transiently transfected with TrpC4 by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Cellular Localization
Cell Membrane

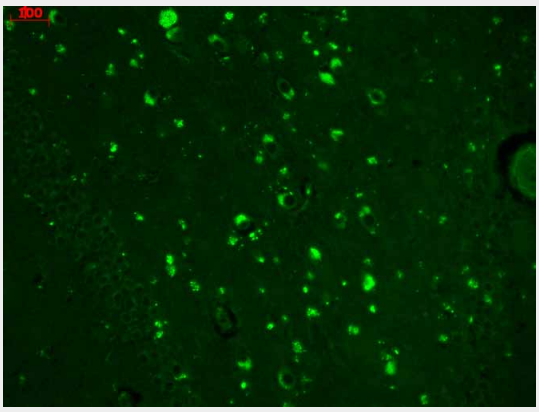
TrpC4 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot

- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TrpC4 Antibody - Images



Immunohistochemistry analysis using Mouse Anti-TrpC4 Monoclonal Antibody, Clone S77-15 (ASM10193). Tissue: hippocampus. Species: Human. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-TrpC4 Monoclonal Antibody (ASM10193) at 1:1000 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.

TrpC4 Antibody - Background

Transient receptor potential cation channel, subfamily C, member 4, also known as TRPC4, is a human gene encoding a protein of the same name. They are expressed in smooth muscle and endothelial cells where they regulate membrane potential and calcium influx. TrpC4 is activated by G(q)/phospholipase C-coupled receptors, but the underlying mechanism remains elusive (1). Studies suggest TrpC4 contributes to axonal regeneration after nerve injury (2).

TrpC4 Antibody - References

1. Otsuguro K., et al. (2008) J Biol Chem. 283(15): 10026-10036.
2. Wu D., Huang W., Richardson P.M., Pristly J.V., Liu M. (2008) J. Biol. Chem. 283(1): 416-426.