10320 Camino Santa Fe, Suite G
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TrpV3 Antibody
TRPV3 Antibody, Clone S15-39
Catalog # ASM10210

Specification

TrpV3 Antibody - Product Information

Application	**IHC, WB**
Primary Accession	Q4QYD9
Other Accession	NP_001020928
Host	**Mouse**
Isotype	**IgG2a**
Reactivity	**Human, Mouse, Rat**
Clonality	**Monoclonal**

Description
Mouse Anti-Rat TrpV3 Monoclonal IgG2a

Target/Specificity
Detects ~70kDa.

Other Names
VRL3 Antibody, vanilloid receptor 2 Antibody, transient receptor potential cation channel subfamily V member 3 Antibody, sensitive channel TRPV3 Antibody, 1110036I10Rik Antibody, MGC124324 Antibody, MGC124325 Antibody, Trpv3 heat sensitive channel Antibody, vanilloid receptor-related osmotically activated channel protein Antibody

Immunogen
Synthetic peptide amino acids 458-474 (cytoplasmic C-terminus) of rat TrpV3

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-334 was sufficient for detection of TrpV3 in 10 µg of COS-1 cell lysate transiently transfected with TrpV3 by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody

Cellular Localization
Membrane

TrpV3 Antibody - Protocols

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

- Western Blot

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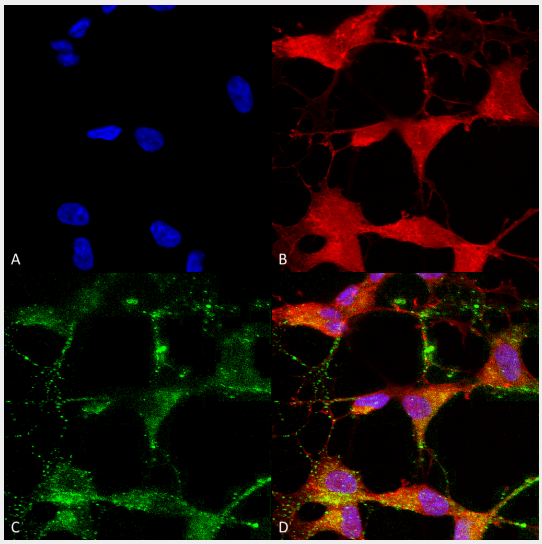
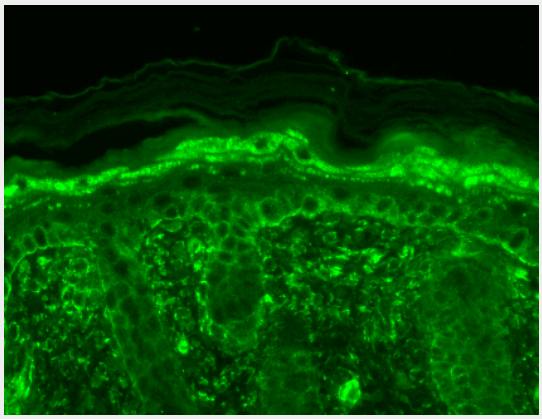
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TrpV3 Antibody - Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-TrpV3 Monoclonal Antibody, Clone S15-39 (ASM10210). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4% PFA for 15 min. Primary Antibody: Mouse Anti-TrpV3 Monoclonal Antibody (ASM10210) 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) TrpV3 Antibody (D) Composite.



Immunohistochemistry analysis using Mouse Anti-TrpV3 Monoclonal Antibody, Clone S15-39 (ASM10210). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-TrpV3 Monoclonal Antibody (ASM10210) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Filaggrin-like staining in upper layers. Dull lower layer cell staining. Some stain seen in hypodermis.

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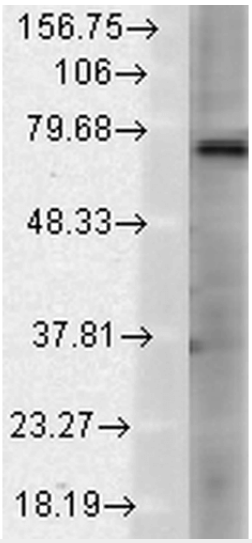
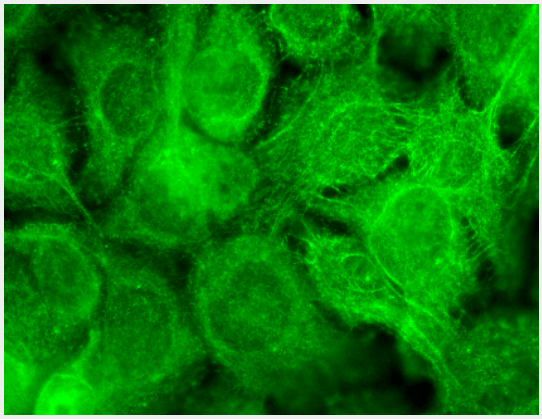


Western Blot analysis of Rat brain membrane lysate showing detection of TrpV3 protein using Mouse Anti-TrpV3 Monoclonal Antibody, Clone S15-39 (ASM10210). Load: 15 µg. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-TrpV3 Monoclonal Antibody (ASM10210) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-TrpV3 Monoclonal Antibody, Clone S15-39 (ASM10210). Tissue: HaCaT cells. Species: Human. Fixation: Cold 100% methanol for 10 minutes at -20°C. Primary Antibody: Mouse Anti-TrpV3 Monoclonal Antibody (ASM10210) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Dotty staining in all cells. Some intermediate filament-like staining in some cells.

TrpV3 Antibody - Background

The TRPV3 protein belongs to a family of non-selective cation channels that function in a variety of processes, including temperature sensation and vasoregulation. The thermo sensitive members of this family are expressed in subsets of sensory neurons that terminate in the skin, and are activated at distinct physiological temperatures. This channel is activated at temperatures between 22 and 40 degrees C. The gene lies in close proximity to another family member (TRPV1) gene on chromosome 17, and the two encoded proteins are thought to associate with each other to form heteromeric channels (1, 2).

TrpV3 Antibody - References

1. Masamoto Y., Kawabata F., Fushiki T. (2009) Biosci. Biotechnol. Biochem. 73(5): 1021-1027.
2. Xiao R., et al. (2008) J Biol Chem. 283(10): 6162-6174.