Cav3.2 Antibody
Cav3.2 Antibody, Clone S55-10
Catalog # ASM10181

Specification

Cav3.2 Antibody - Product Information

Application	**IHC**
Primary Accession	O95180
Other Accession	NP_001005407.1
Host	**Mouse**
Isotype	**IgG1**
Reactivity	**Human, Mouse, Rat**
Clonality	**Monoclonal**

Description
Mouse Anti-Human Cav3.2 Monoclonal IgG1

Target/Specificity
Detects ~260kDa. No cross-reactivity against Cav1.3.

Other Names
Cav3.2 Antibody, CACNA1H Antibody, CACNA1HB Antibody, calcium channel Antibody, voltage-dependent Antibody, T type Antibody, alpha 1H subunit Antibody, calcium channel Antibody, voltage-dependent Antibody, T type Antibody, alpha 1Hb subunit Antibody, ECA6 Antibody, EIG6 Antibody, FLJ90484 Antibody, Low-voltage-activated calcium channel alpha1 3.2 subunit Antibody, low-voltage-activated calcium channel alpha13.2 subunit Antibody, voltage dependent t-type calcium channel alpha-1H subunit Antibody, voltage-dependent T-type calcium channel subunit alpha-1H Antibody, voltage-gated calcium channel alpha subunit Cav3.2 Antibody, voltage-gated calcium channel alpha subunit CavT.2 Antibody, Voltage-gated calcium channel subunit alpha Cav3.2 Antibody

Immunogen
Fusion protein amino acids 1019-1293 (II-III loop) of human Cav3.2

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-303 was sufficient for detection of Cav3.2 in 10 µg of HEK cell lysate expressing Cav3.2 by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
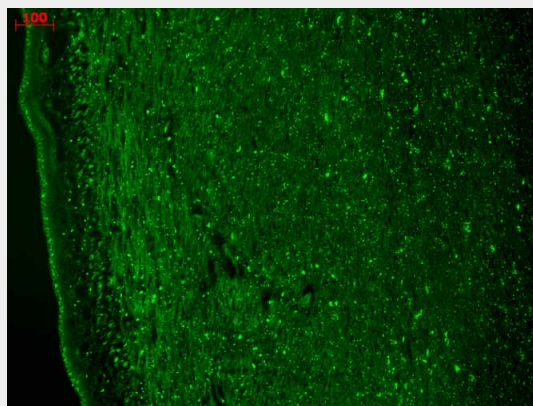
Cellular Localization
Membrane

Cav3.2 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

Cav3.2 Antibody - Images

Immunohistochemistry analysis using Mouse Anti-CaV3.2 Calcium Channel Monoclonal Antibody, Clone S55-10 (ASM10181). Tissue: hippocampus. Species: Human. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-CaV3.2 Calcium Channel Monoclonal Antibody (ASM10181) at 1:1000 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT.
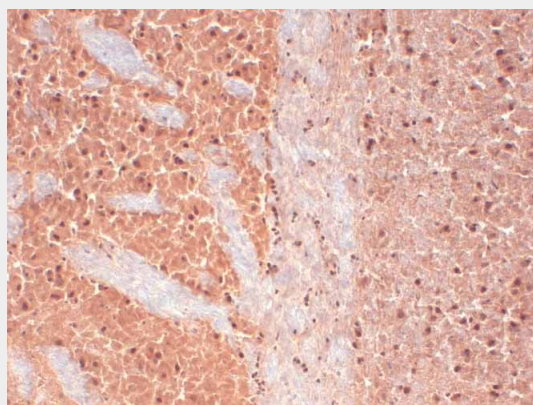
Immunohistochemistry analysis using Mouse Anti-CaV3.2 Calcium channel Monoclonal Antibody, Clone S55-10 (ASM10181). Tissue: frozen brain section. Species: human. Fixation: 10% Formalin Solution for 12-24 hours at RT. Primary Antibody: Mouse Anti-CaV3.2 Calcium channel Monoclonal Antibody (ASM10181) at 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.

Cav3.2 Antibody - Background

CaV3.2 is a protein which in humans is encoded by the CACNA1H gene. Studies suggest certain

mutations in this gene lead to childhood absence epilepsy (1, 2). Studies also suggest that the up-regulations of CaV3.2 may participate in the progression of prostate cancer toward an androgen-independent stage (3).

Cav3.2 Antibody - References

1. Chen Y., et al. (2003) Ann. Neurol. 54(2): 239–43.
2. Khosravani H., et al. (2004) J Biol Chem. 279(11): 9681-9684.
3. Gackiere F., et al. (2008) J Biol Chem. 283(28): 19872.