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Slo3 Antibody
Slo3 Antibody, Clone S2-16
Catalog # ASM10202

Specification

Slo3 Antibody - Product Information

Application	**WB, IHC, AM**
Primary Accession	O54982
Other Accession	NP_032458.3
Host	**Mouse**
Isotype	**IgG2b**
Reactivity	**Human, Mouse, Rat**
Clonality	**Monoclonal**

Description
Mouse Anti-Mouse Slo3 Monoclonal IgG2b

Target/Specificity
Detects ~115kDa.

Other Names
Kcnma3 Antibody, mSlo3 Antibody, Slo3 Antibody, KCa5 Antibody, KCNMA3 Antibody, potassium channel subfamily U member 1 Antibody, Slowpoke homolog 3 Antibody, KCa5.1 Antibody, KCNMC1Calcium-activated potassium channel Antibody, subfamily M subunit alpha-3 Antibody, Calcium-activated potassium channel subunit alpha-3 Antibody, potassium channel Antibody, subfamily U Antibody, member 1 Antibody

Immunogen
Fusion protein amino acids 1052-1121 of mouse Slo3

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-326 was sufficient for detection of Slo3 in 10 µg of mouse brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.

Cellular Localization
Cell Membrane

Slo3 Antibody - Protocols

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

- Western Blot

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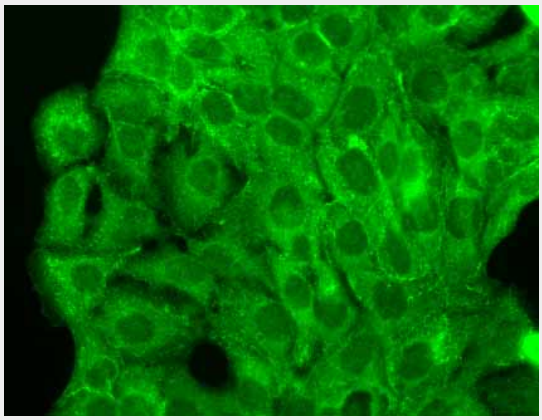
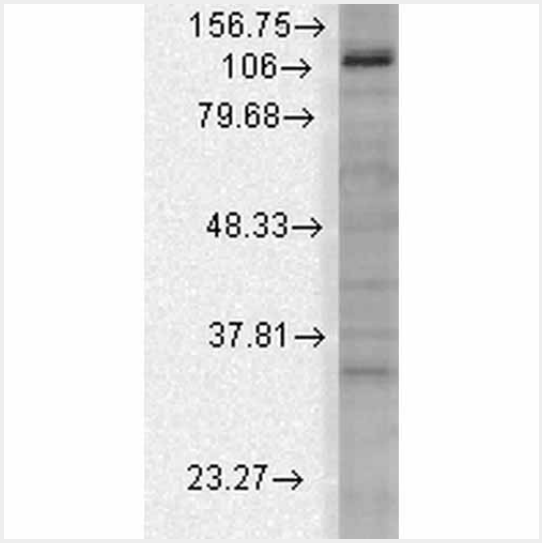
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Slo3 Antibody - Images



Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Slo3 Potassium Channel Monoclonal Antibody, Clone S2-16 (ASM10202). Tissue: HaCaT cells. Species: Human. Fixation: Cold 100% methanol for 10 minutes at -20°C. Primary Antibody: Mouse Anti-Slo3 Potassium Channel Monoclonal Antibody (ASM10202) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Cytoplasmic, and some cell-cell border staining.



Western Blot analysis of Rat brain membrane lysate showing detection of Slo3 Potassium Channel protein using Mouse Anti-Slo3 Potassium Channel Monoclonal Antibody, Clone S2-16 (ASM10202). Load: 15 µg. Block: 1.5% BSA for 30 minutes at RT. Primary Antibody: Mouse Anti-Slo3 Potassium Channel Monoclonal Antibody (ASM10202) at 1:1000 for 2 hours at RT. Secondary Antibody: Sheep Anti-Mouse IgG: HRP for 1 hour at RT.

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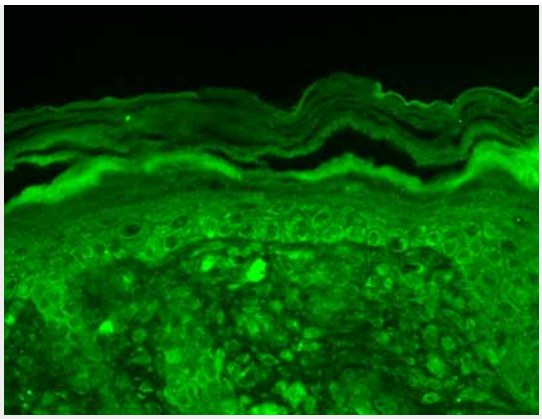

Immunohistochemistry analysis using Mouse Anti-Slo3 Potassium Channel Monoclonal Antibody, Clone S2-16 (ASM10202). Tissue: backskin. Species: Mouse. Fixation: Bouin's Fixative and paraffin-embedded. Primary Antibody: Mouse Anti-Slo3 Potassium Channel Monoclonal Antibody (ASM10202) at 1:100 for 1 hour at RT. Secondary Antibody: FITC Goat Anti-Mouse (green) at 1:50 for 1 hour at RT. Localization: Epidermal Staining.

Slo3 Antibody - Background

The Slo3 channel is a novel potassium channel abundantly expressed in mammalian speramtocytes- tests have shown that it is expressed in both mouse and human testis (3). It represents a new and unique type of potassium channel that is regulated by both intracellular pH and membrane voltage (1). Because of its sensitivity to both pH and voltage, Slo3 may play a role in alkalization-mediated K(+) fluxes associated with sperm capacitation (2).

Slo3 Antibody - References

1. Schreiber M., et al. (1998) J Biol Chem. 273 (6): 3509-3516.
2. Tang Q.Y., Zhang Z., Xia X.M. and Lingle C.J. (2010) Epub: Channels (Austin) 4(1).