

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

**Specification**

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**Slo3 Antibody - Product Information**

Application	<b>WB, IHC</b>
Primary Accession	<a href="#">O54982</a>
Other Accession	<a href="#">NP_032458.3</a>
Host	<b>Mouse</b>
Isotype	<b>IgG2b</b>
Reactivity	<b>Human, Mouse, Rat</b>
Clonality	<b>Monoclonal</b>

**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, KCNMC1 Calcium-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 **-20°C**

**Storage Buffer**

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

Shipping Temperature **Blue Ice or 4°C**

**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

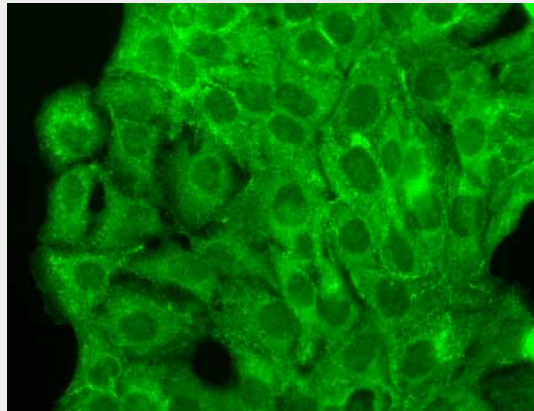
**Slo3 Antibody - Protocols**

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

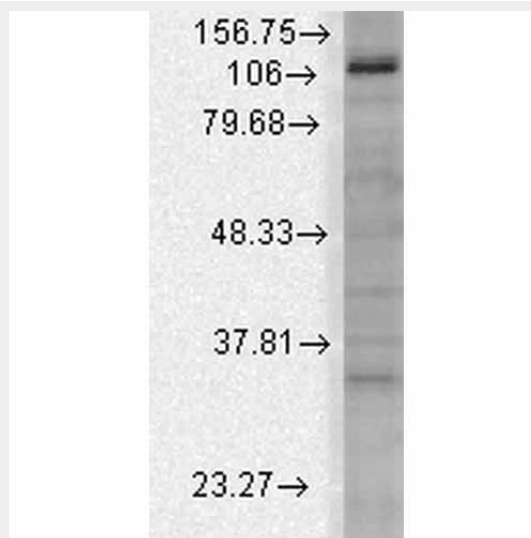
- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

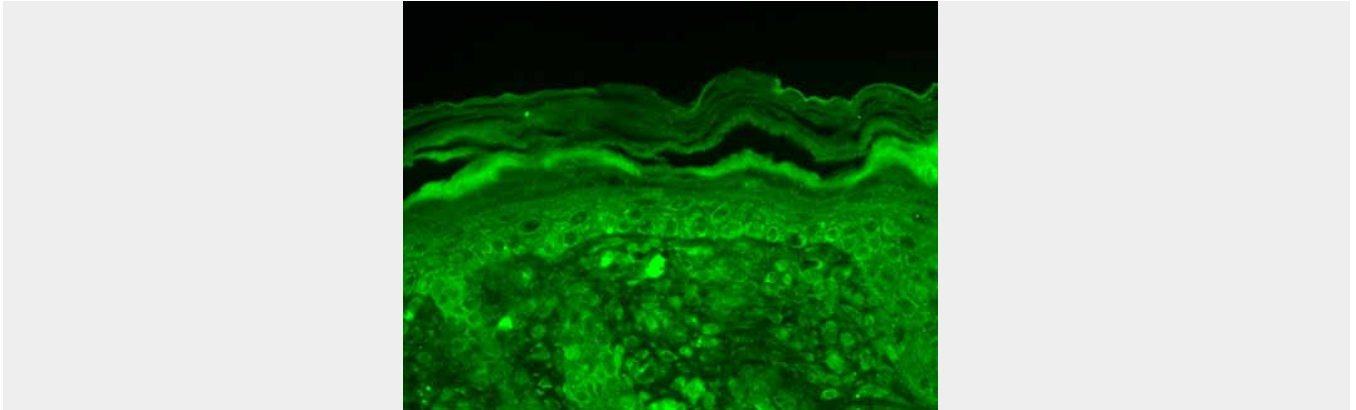
### Slo3 Antibody - Images



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.



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 spermatocytes- 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).