Datasheet for ABIN6657909

anti-KCNU1 antibody

1 Image

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Overview

Quantity:	100 µg
Target:	KCNU1
Reactivity:	Mouse
Host:	Mouse
Clonality:	Monoclonal
Application:	Immunohistochemistry (IHC), Western Blotting (WB), Fluorescence Microscopy (FM)

Product Details

Immunogen:	Immunogen: mSlo3 Antibody was produced in mice by repeated immunizations raised against a fusion protein of mouse Slo3. Immunogen Type: Recombinant Protein
Clone:	S2-16
Isotype:	IgG2b
Purification:	Anti-mSlo3 Antibody was purified by Protein G chromatography. This monoclonal antibody is specific for mouse Slo3 protein. A BLAST analysis was used to suggest cross-reactivity with mSlo3 from mouse based on 100% homology with the immunizing sequence. Cross-reactivity with mSlo3 from other sources has not been determined. Ion Channels research.

Target Details

Target:	KCNU1
Alternative Name:	mSlo3 (KCNU1 Products)

Target Details

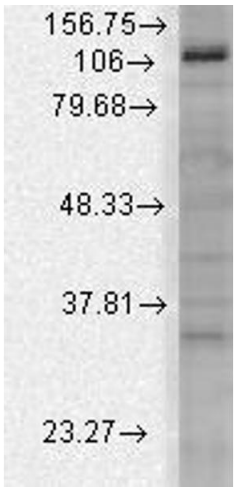
Background:	Synonyms: mouse anti-mSlo3 antibody, mouse anti-Slo3 antibody, Potassium channel subfamily U member 1, Calcium-activated potassium channel subunit alpha-3, Calcium-activated potassium channel, subfamily M subunit alpha-3, Slowpoke homolog 3, mSlo3, pH -sensitive maxi potassium channel, Kcnu1, Kcnma3, Slo3 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. It represents a new and unique type of potassium channel that is regulated by both intracellular pH and membrane voltage. Because of its sensitivity to both pH and voltage, Slo3 may play a role in alkalization-mediated K(+) fluxes associated with sperm capacitation. Gene Name: Kcnu1
Gene ID:	16532
NCBI Accession:	NP_032458
UniProt:	O54982

Application Details

Application Notes:	Immunohistochemistry Dilution: 0.1-1.0 µg/mL Application Note: Anti-Slo3 Antibody is suitable for use in WB and IF microscopy (mouse sperm). Expect a band approximately ~115 kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user. Western Blot Dilution: 1-10 µg/mL IF Microscopy Dilution: 1.0-10 µg/mL
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 50 % (v/v) Glycerol
Storage:	RT,4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.



Western Blotting

Image 1. mSlo3 Western Blot. Western Blot of mouse anti-mSlo3 antibody. Lane 1: Rat Brian Membrane lysate. Primary antibody: mSlo antibody at 1:1000 for overnight at 4°C. Secondary antibody: Goat anti-mouse IgG HRP secondary antibody at 1:10,000 for 45 min at RT. Block: 5% Blotto overnight 4°C. Predicted/Observed size: 126.8 kDa/115kD. Other band(s): none.

