

## Product Datasheet

## Anti-Slo1/BKAlpha Potassium Channel Antibody FL594 Conjugate

NeuroMab



KO Validated

## Overview

<b>Catalog #</b>	75-408-FL594
<b>Conjugate</b>	FL594 Ex: 594 nm, Em: 615 nm
<b>Isotype</b>	IgG1
<b>Clone Number</b>	L6/23
<b>Size</b>	200 µL
<b>Concentration</b>	0.5 mg/mL
<b>Host Species</b>	Mouse Monoclonal
<b>Format</b>	Purified by Protein A chromatography
<b>Buffer</b>	PBS with 0.09% azide
<b>Applications</b>	ICC, IHC
<b>Species Reactivity</b>	Mouse and Rat
<b>Immunogen</b>	Fusion protein amino acids 690-1196 (cytoplasmic C-terminus) of mouse Slo1 (accession number Q08460) produced recombinantly in E. Coli
<b>Molecular Weight</b>	110-130 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-408-FL594, RRID: AB_2940350

## Details

<b>Target Description</b>	Calcium-activated potassium channel subunit alpha-1, Potassium Calcium-Activated Channel Subfamily M Alpha 1 or Slo1/BKalpha is encoded by the gene KCNMA1. BKalpha binds to one of 4 different beta subunits to form a channel in the calcium activated large conductance (MaxiK channel) family. This potassium channel is activated by membrane depolarization or an increase in cytosolic $Ca^{2+}$ and mediated the export of $K^{+}$ . BKalpha is involved with various cell processes including contraction of smooth muscle, regulation of transmitter release, innate immunity and regulation of membrane potential. Diseases associated with KCNMA1 include forms of Epilepsy and Developmental Delay Cerebellar Atrophy and Seizures.
<b>Specificity</b>	No cross-reactivity reported
<b>Purification Method</b>	Produced by in vitro bioreactor culture of hybridoma line followed by Protein A affinity chromatography and conjugation of purified mAb. Purified mAbs are >90% specific antibody.
<b>Quality Control Tests</b>	Each new lot of antibody is quality control tested by western blot on rat whole brain lysate and confirmed to stain the expected molecular weight band.

**Storage**

Aliquot and store at  $\leq -20^{\circ}\text{C}$  for long term storage. For short term storage, store at  $2-8^{\circ}\text{C}$ . For maximum recovery of product, centrifuge the vial prior to removing the cap.

**Our Guarantee**

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