

Product Datasheet

Anti-Slo1/BKAlpha Potassium Channel Antibody FL550 Conjugate



Overview

Catalog #	75-408-FL550
Conjugate	FL550 Ex: 550 nm, Em: 575 nm
Isotype	IgG1
Clone Number	L6/23
Size	200 μ L
Concentration	0.5 mg/mL
Host Species	Mouse Monoclonal
Format	Purified by Protein A chromatography
Buffer	PBS with 0.09% azide
Applications	ICC, IHC
Species Reactivity	Mouse and Rat
Immunogen	Fusion protein amino acids 690-1196 (cytoplasmic C-terminus) of mouse Slo1 (accession number Q08460) produced recombinantly in E. Coli
Molecular Weight	110-130 kDa
Cite this Antibody	Antibodies Inc Cat# 75-408-FL550, RRID: AB_2940349

Details

Target Description	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.
Specificity	No cross-reactivity reported
Purification Method	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.
Quality Control Tests	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.

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