

Product Datasheet

Anti-SUR1 Antibody FL490 Conjugate



Overview

Catalog #	75-267-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG1
Clone Number	N289/16
Size	200 µL
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	Hamster, Mouse, Rat
Immunogen	Fusion protein amino acids 1548-1582 (LVMVLKRGAILEFDKPEKLLSQKDSVFASFVRADK, cytoplasmic C-terminus) of rat SUR1 (accession number Q09429) produced recombinantly in E. Coli
Molecular Weight	180 kDa
Cite this Antibody	Antibodies Inc Cat# 75-267-FL490, RRID: AB_2939960

Details

Target Description	Sulfonylurea receptor 1 (SUR1), or ATP binding cassette transporter subfamily C member 8 is encoded by the gene ABCC8 and is a member of the ABC transporter super family. SUR1 acts to modulate ATP sensitive potassium channels and combines with Kir6.2 (KCNJ11). SUR1 is involved in insulin release. SUR1 has broad expression in many tissues including brain, heart, pancreas (beta cells). Diseases associated with this gene include Familial Hyperinsulinemic Hypoglycemia and Diabetes Mellitus.
Specificity	Does not cross-react with SUR2B (based on KO validation results)
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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