

Product Datasheet

Anti-VGlut2 Antibody FL490 Conjugate



Overview

Catalog #	75-067-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG1
Clone Number	N29/29
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	Electric Ray, Human, Mouse and Rat
Immunogen	Fusion protein amino acids 501-582 (cytoplasmic C-terminus) of rat VGlut2 (accession number Q9JI12) produced recombinantly in E. Coli
Molecular Weight	60 kDa
Cite this Antibody	Antibodies Inc Cat# 75-067-FL490, RRID: AB_2939280

Details

Target Description	Vesicular glutamate transporter 2 (Vglut2) is encoded by the gene Slc17a6 and belongs to the vesicular glutamate transporter family. Vglut2 is expressed in the thalamus, midbrain, brainstem, and spinal cord at synaptic vesicles. It functions to uptake glutamate into synaptic vesicles in excitatory neural cells. Altered expression of Vglut2 has been implicated in include Gnathodiaphyseal Dysplasia and tendinosis.
Specificity	Does not cross-react with VGlut1 or VGlut3
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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