

Product Datasheet

Anti-VGlut1 Antibody FL594 Conjugate



Overview

Catalog #	75-066-FL594
Conjugate	FL594 Ex: 594 nm, Em: 615 nm
Isotype	IgG1
Clone Number	N28/9
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	Fish, Human, Mouse, and Rat
Immunogen	Fusion protein amino acids 493-560 (cytoplasmic C-terminus) of rat VGlut1 (accession number Q62634) produced recombinantly in E. Coli
Molecular Weight	52 kDa
Cite this Antibody	Antibodies Inc Cat# 75-066-FL594, RRID: AB_2939278

Details

Target Description	Vesicular glutamate transporter 1 (Vglut1) is encoded by the gene Slc17a7 and belongs to the vesicular glutamate transporter family. Vglut1 is expressed in glutamatergic neurons in brain regions including the cerebellum, cerebral cortex and hippocampus at synaptic vesicles. Isoform 2 is expressed in retinal. Vglut1 functions to uptake glutamate into synaptic vesicles in excitatory neural cells. Altered expression of Vglut1 has been implicated in several neurological and psychiatric diseases including Alzheimer's disease, Parkinson's disease, epilepsy and schizophrenia.
Specificity	Does not cross-react with VGlut2 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.

Our Guarantee

As an original manufacturer, we are dedicated to creating quality and reproducible antibodies that further your research. We provide personalized customer support from the scientists that made the antibody and offer a free replacement or 100% refund if we cannot resolve an issue. Order today and experience our 50+ year passion for science.

Note: For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, viewable on our website.