

## Product Datasheet

## Anti-VGlut1 Antibody FL490 Conjugate



## Overview

<b>Catalog #</b>	75-066-FL490
<b>Conjugate</b>	FL490 Ex: 491 nm, Em: 515 nm
<b>Isotype</b>	IgG1
<b>Clone Number</b>	N28/9
<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>	Fish, Human, Mouse, and Rat
<b>Immunogen</b>	Fusion protein amino acids 493-560 (cytoplasmic C-terminus) of rat VGlut1 (accession number Q62634) produced recombinantly in E. Coli
<b>Molecular Weight</b>	52 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-066-FL490, RRID: AB_2939276

## Details

<b>Target Description</b>	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.
<b>Specificity</b>	Does not cross-react with VGlut2 or VGlut3
<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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