

Product Datasheet

Anti-CALB1/calbindin Antibody FL490 Conjugate



Overview

Catalog #	75-448-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG1
Clone Number	L109/57
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	Human, Mouse, and Rat
Immunogen	Fusion protein amino acids 1-261 (full-length) of human CALB1 (accession number P05937) produced recombinantly in E. Coli
Molecular Weight	30 kDa
Cite this Antibody	Antibodies Inc Cat# 75-448-FL490, RRID: AB_2940488

Details

Target Description	Calbindin (aka. calbindin D28k) is a member of the calcium-binding protein superfamily that includes calmodulin and troponin C. It is predominantly expressed in certain types of neurons, particularly in dendrites and perikarya of the cerebellum and is thought to buffer entry of calcium upon stimulation of glutamate receptors (Andressen et al., 1993). Calbindin has recently been shown to play a critical role in mitochondrial dysfunction and loss of synaptic proteins in vivo in an Alzheimer's disease mouse model (Kook et al., 2014).
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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