

Product Datasheet

Anti-BDNF Antibody FL490 Conjugate



Overview

Catalog #	75-470-FL490
Conjugate	FL490 Ex: 491 nm, Em: 515 nm
Isotype	IgG2b
Clone Number	N450/53
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	IHC
Species Reactivity	Mouse and Rat
Immunogen	Fusion protein amino acids 1-249 (full length) of mouse BDNF (accession number P21237) produced recombinantly in E. Coli
Molecular Weight	25-40 kDa
Cite this Antibody	Antibodies Inc Cat# 75-470-FL490, RRID: AB_2940568

Details

Target Description	Brain-derived neurotrophic factor is encoded by the gene BDNF and is a member of the neurotrophin family of growth factors. BDNF is a secreted signaling molecule with many important functions including axonal growth, modulation of dendritic growth, the promotion of survival/differentiation of neuronal populations in peripheral and central nervous systems, regulation of synaptic transmission/plasticity and long-term potentiation. BDNF is expressed highly in brain (in the hippocampus, amygdala, cerebral cortex and cerebellum) and expressed in lung, heart and skeletal muscle. Diseases associated with this gene include Congenital Central Hypoventilation Syndrome, Wilms Tumor, Aniridia and Mental Retardation Syndrome.
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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