

Product Datasheet

Anti-Beta4-Spectrin Antibody FL650 Conjugate



Overview

Catalog #	75-377-FL650
Conjugate	FL650 Ex: 655 nm, Em: 676 nm
Isotype	IgG2b
Clone Number	N393/76
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	Human, Mouse, and Rat
Immunogen	Fusion protein amino acids 1621-1832 (C-terminal repeats 14 to 15) of human Beta4-spectrin (accession number Q9H254) produced recombinantly in E. Coli
Molecular Weight	>200 kDa
Cite this Antibody	Antibodies Inc Cat# 75-377-FL650, RRID: AB_2940259

Details

Target Description	Spectrin beta chain, non-erythrocytic 4, or β 4 spectrin, is a member of the spectrin family of cytoskeletal proteins. It is found in the cytoskeleton and cell cortex of cells in the brain and pancreatic islets. It is also expressed in skeletal muscle. β 4 spectrin functions as a scaffold protein that links the actin cytoskeleton to the plasma membrane. It is involved in cell shape and organization. Mutations in the β 4 spectrin gene are associated with congenital myopathy, and neurodevelopmental disorder with hypotonia, neuropathy and deafness (NEDHND).
Specificity	Does not cross-react with other Beta-spectrins
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 IHC on either rat or mouse brain and confirmed to give the expected staining pattern.

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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