

## Product Datasheet

## Anti-Beta4-Spectrin Antibody FL594 Conjugate



## Overview

<b>Catalog #</b>	75-377-FL594
<b>Conjugate</b>	FL594 Ex: 594 nm, Em: 615 nm
<b>Isotype</b>	IgG2b
<b>Clone Number</b>	N393/76
<b>Size</b>	200 $\mu$ L
<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>	Human, Mouse, and Rat
<b>Immunogen</b>	Fusion protein amino acids 1621-1832 (C-terminal repeats 14 to 15) of human Beta4-spectrin (accession number Q9H254) produced recombinantly in E. Coli
<b>Molecular Weight</b>	>200 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-377-FL594, RRID: AB_2940258

## Details

<b>Target Description</b>	Spectrin beta chain, non-erythrocytic 4, or $\beta$ 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. $\beta$ 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 $\beta$ 4 spectrin gene are associated with congenital myopathy, and neurodevelopmental disorder with hypotonia, neuropathy and deafness (NEDHND).
<b>Specificity</b>	Does not cross-react with other Beta-spectrins
<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 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.

**Our Guarantee**

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