

## Product Datasheet

## Anti-Doc2B Antibody FL550 Conjugate



## Overview

<b>Catalog #</b>	75-214-FL550
<b>Conjugate</b>	FL550 Ex: 550 nm, Em: 575 nm
<b>Isotype</b>	IgG1
<b>Clone Number</b>	N150/21
<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>	Mouse and Rat
<b>Immunogen</b>	Fusion protein amino acids 1-216 (N-terminus) of rat Doc2b (accession number P70610) produced recombinantly in E. Coli
<b>Molecular Weight</b>	45 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-214-FL550, RRID: AB_2939793

## Details

<b>Target Description</b>	Double C2-like domain-containing protein beta or Doc2b is encoded by the gene DOC2b. Doc2b functions as a calcium sensor which positively regulates soluble NSF attachment receptor (SNARE) dependent fusion of vesicles with membranes. Doc2b binds phospholipids and may act at the priming stage of membrane fusion by modifying membrane curvature to stimulate fusion. Doc2b is expressed in pancreatic cells, endocrine cells and brain, where it is highly expressed in neurons. (Friedrich et al. Neurosci., July 2, 2008 • 28(27):6794 – 6806)
<b>Specificity</b>	Does not cross-react with Doc2a
<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.

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