

## Product Datasheet

## Anti-TARPGamma2/Stargazin Antibody FL550 Conjugate



## Overview

<b>Catalog #</b>	75-242-FL550
<b>Conjugate</b>	FL550 Ex: 550 nm, Em: 575 nm
<b>Isotype</b>	IgG2a
<b>Clone Number</b>	N245/1
<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
<b>Species Reactivity</b>	Mouse and Rat
<b>Immunogen</b>	Fusion protein amino acids 203-323 (cytoplasmic C-terminus) of rat TARPGamma2 (accession number Q71RJ2) produced recombinantly in E. Coli
<b>Molecular Weight</b>	36 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-242-FL550, RRID: AB_2939881

## Details

<b>Target Description</b>	Voltage-dependent calcium channel gamma-2 subunit, TARPGamma2 or Stargazin is encoded by the gene CACNG2 and is the transmembrane gamma subunit of the L-type calcium channel. Stargazin is involved in regulation and trafficking of the ligand gated ion channel AMPA receptors. It is thought to play a role in learning and memory. Diseases associated with this gene include forms of deafness, Mental Retardation and childhood absence epilepsy.
<b>Specificity</b>	Does not cross-react with TARPGamma3, TARPGamma4 and TARPGamma8
<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 western blot on rat whole brain lysate and confirmed to stain the expected molecular weight band.
<b>Storage</b>	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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