

## Product Datasheet

## Anti-Pan-Gamma-Protocadherin-A Antibody FL490 Conjugate

NeuroMab



KO Validated

## Overview

<b>Catalog #</b>	75-178-FL490
<b>Conjugate</b>	FL490 Ex: 491 nm, Em: 515 nm
<b>Isotype</b>	IgG2b
<b>Clone Number</b>	N144/32
<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
<b>Species Reactivity</b>	Mouse
<b>Immunogen</b>	Fusion protein corresponding to amino acids 720-804 (variable cytoplasmic domain) of mouse Gamma-protocadherin-A3 (accession number Q91XY5) produced recombinantly in E. Coli
<b>Molecular Weight</b>	100 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-178-FL490, RRID: AB_2939656

## Details

<b>Target Description</b>	Cadherins are calcium-dependent cell-cell adhesion molecules, and protocadherins constitute a subfamily of non-classic cadherins. Members of the protocadherin gamma subfamily are encoded by 22 tandemly arranged genes within the PCDHG gene cluster on chromosome 5q31. The 22 PCDHG genes function as 'variable' exons that are individually spliced to a downstream constant region to form distinct PCDHG transcripts. The variable PCDHG exons encode the extracellular and transmembrane domains of the protocadherin protein, and the common region encodes the intracellular domain. These neural cadherin-like cell adhesion proteins most likely play a critical role in the establishment and function of specific cell-cell connections in the brain.
<b>Specificity</b>	Cross-reacts with all Gamma protocadherin-A, -B and -C proteins
<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.

**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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