

## Product Datasheet

## Anti-CASPR2 Antibody FL550 Conjugate



## Overview

<b>Catalog #</b>	75-075-FL550
<b>Conjugate</b>	FL550 Ex: 550 nm, Em: 575 nm
<b>Isotype</b>	IgG2a
<b>Clone Number</b>	K67/25
<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>	Human, Mouse, and Rat
<b>Immunogen</b>	Fusion protein 96-1265 (extracellular domain) of human Caspr2 (accession number A0A090N7T7) produced recombinantly in E. Coli
<b>Molecular Weight</b>	180 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-075-FL550, RRID: AB_2939297

## Details

<b>Target Description</b>	Contactin-associated protein-like 2 protein, or Caspr2, is a neuronal transmembrane member of the Neurexin family. Structural features of Caspr2 include epidermal growth factor repeats, laminin G domains, F5/8 type C domain, fibrinogen-like domains, and PDZ binding sites. Caspr2 is a cell adhesion molecule as well as a receptor. It is involved in mediating cell–cell interactions in the nervous system and involved in neural-glia interactions and clustering of potassium channels in myelinated axons. It is expressed at the juxaperanodal region of nodes of Ranvier in the CNS and PNS. Changes in expression have been associated with increased susceptibility to autism and epilepsy.
<b>Specificity</b>	No cross-reactivity against Caspr/paranodin
<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.

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