

## Product Datasheet

## Anti-Ankyrin-G (Staining) Antibody FL594 Conjugate



## Overview

<b>Catalog #</b>	75-146-FL594
<b>Conjugate</b>	FL594 Ex: 594 nm, Em: 615 nm
<b>Isotype</b>	IgG2a
<b>Clone Number</b>	N106/36
<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>	Feline, Hamster, Human, Mouse, Non-Human Primate, and Rat
<b>Immunogen</b>	Fusion protein ~1000 amino acids of Ankyrin-G (accession number E9PE32) produced recombinantly in E. Coli
<b>Molecular Weight</b>	<200 kDa
<b>Cite this Antibody</b>	Antibodies Inc Cat# 75-146-FL594, RRID: AB_2939542

## Details

<b>Target Description</b>	Ankyrin-G (ankyrin 3) is a member of the Ankyrin family which consists of Ankyrin R (1), Ankyrin B (2) and Ankyrin G (3) all of which are expressed in the nervous system. Ankyrins are structural proteins that aid in the attachment of integral membrane proteins with the spectrin-actin cytoskeleton, and thus targets voltage-gated sodium channels, potassium channels, cell adhesion molecules and others at the nodes of Ranvier and axonal initial segments (AIS). Variants in Ankyrin G have been linked to bipolar disorder.
<b>Specificity</b>	Does not cross-react with Ankyrin-B
<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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