

Product Datasheet

Anti-Nav1.7 Na⁺ Channel Antibody FL594 Conjugate

Overview

Catalog #	75-103-FL594
Conjugate	FL594 Ex: 594 nm, Em: 615 nm
Isotype	IgG1
Clone Number	N68/6
Size	200 µL
Concentration	0.5 mg/mL
Host Species	Mouse Monoclonal
Format	Purified by Protein A chromatography
Buffer	PBS with 0.09% azide
Applications	ICC, IHC
Species Reactivity	Human, Mouse, and Rat
Immunogen	Fusion protein amino acids 1751-1946 (cytoplasmic C-terminus) of human Nav1.7 (accession number Q15858) produced recombinantly in E. Coli
Molecular Weight	230 kDa
Cite this Antibody	Antibodies Inc Cat# 75-103-FL594, RRID: AB_2939386

Details

Target Description	Nav1.7 subunit alpha, or SCN9A, is a member of the voltage gated sodium channel family. It is expressed at the terminal ends of sensory neurons in the dorsal root ganglion (DRG) and in trigeminal and sympathetic ganglion neurons. A major function of Nav1.7 is the generation and conduction of action potentials in nociceptors, or “pain receptors” and thus involved in pain sensation. Changes in Nav1.7 expression have been linked to primary erythralgia, primary erythralgia, and Congenital insensitivity to pain
Specificity	No cross-reactivity against other Nav channels
Purification Method	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.
Quality Control Tests	Each new lot of antibody is quality control tested on cells overexpressing target protein 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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