Product Datasheet

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Anti-Nav1.8 [Clone S134-12]

Monoclonal

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

410 Axminister Dr, St. Louis, MO 63026 (800) 538-1145 leincoglobal@leinco.com

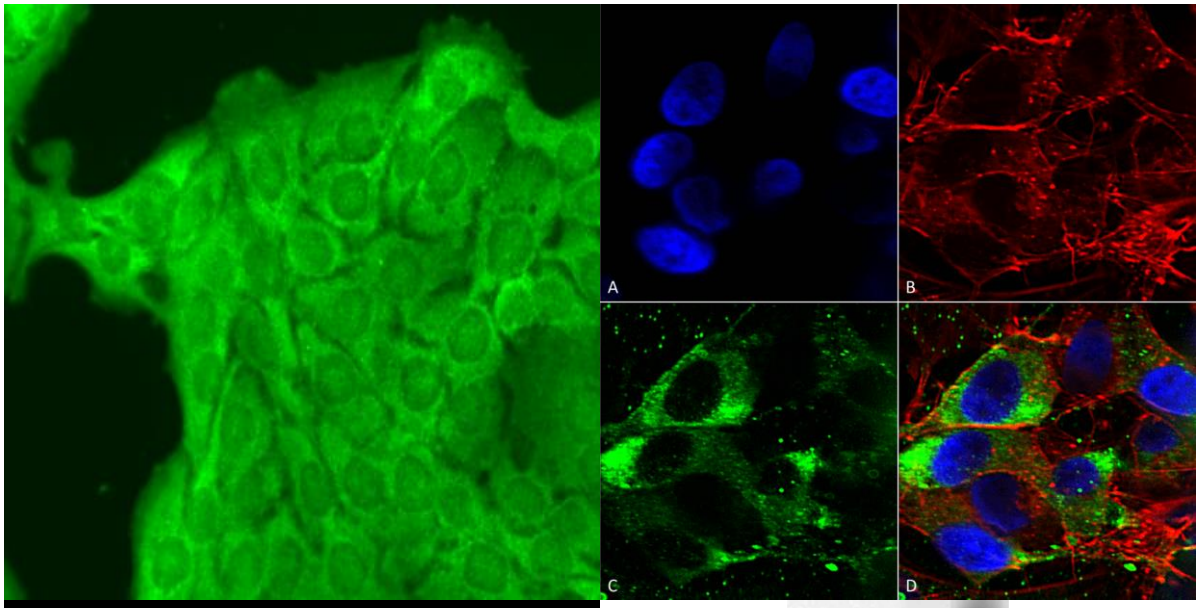
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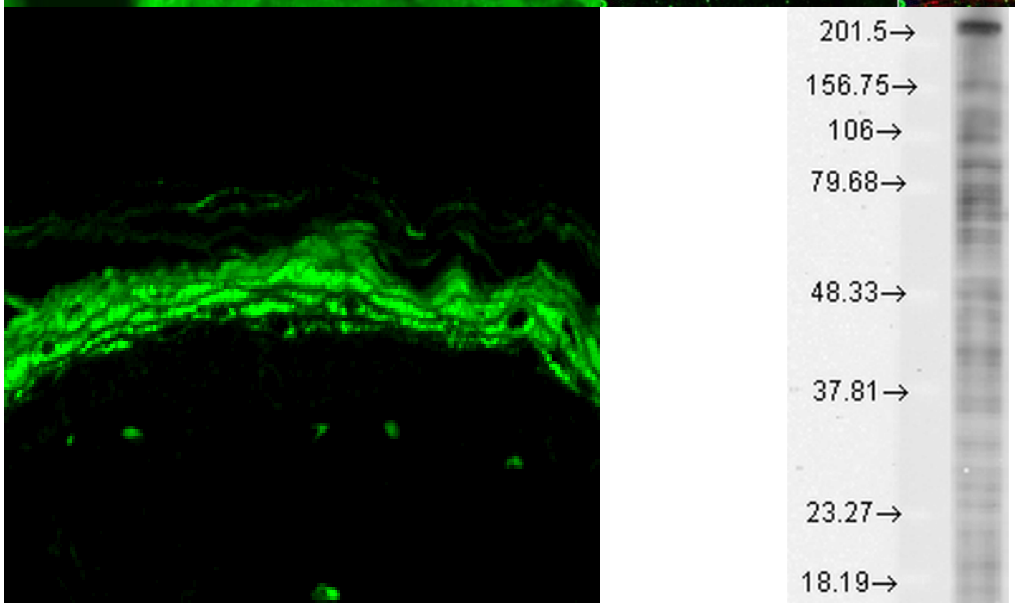
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Product Information

Product No.:	11523
Clone:	S134-12
Isotype:	Mouse Mouse IgG2a





Product Description

Specificity:
Mouse Monoclonal Antibody specific to Nav1.8 Na+ Channel

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Background:
Nav1.8, encoded by the SCN10A gene, is a tetrodotoxin-resistant voltage-gated sodium channel primarily expressed in peripheral sensory neurons such as nociceptors. It plays a key role in pain signal transmission by contributing to the upstroke of action potentials in nociceptive pathways.

Highly selective for peripheral tissues, Nav1.8 is a major mediator of inflammatory and neuropathic pain and remains active at lower temperatures, linking it to cold-induced pain mechanisms. Because of its restricted expression outside the central nervous system, Nav1.8 is an attractive target for developing peripheral analgesics.

Emerging evidence also connects chronic peripheral nerve dysfunction with neuroinflammation and cognitive decline, suggesting that targeting Nav1.8 may have broader implications in modulating pain-related neurodegenerative processes.

Known Reactivity Species:
Human, Monkey, Mouse, Rat

Format:
Purified

Immunogen:
Fusion protein, aa 1724-1956 (cytoplasmic C-terminus) of rat Nav1.8 (accession no. Q62968).

Formulation
Phosphate-Buffered Saline (PBS), pH 7.2 - 7.4, containing 50% Glycerol and 0.09% Sodium Azide (NaN_3).

Storage and Stability
This antibody is stable for at least one (1) year at -20°C.

Product Preparation
Purified by Protein G affinity chromatography

Applications
Applications and Recommended Usage (Quality Tested By Leinco):

Immunoblotting: use at 1-10ug/mL. A band of ~220kDa is detected.Immunohistochemistry and

Immunocytochemistry: use at 0.1-1ug/mL

Immunofluorescence: use at 1-10ug/mL

These are recommended concentrations. User should determine optimal concentrations for their application.

Positive control: Rat dorsal root ganglia or lysate of COS cells transiently expressing Nav1.8.

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Country of Origin
USA

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