

## Anti-Nav1.8 Na<sup>+</sup> Channel Monoclonal Antibody

### ORDERING INFORMATION

Catalog No.: 11523 (clone S134-12)  
Size: 100ug in PBS, pH 7.4; 50% glycerol, 0.09% sodium azide. Purified by Protein G affinity chromatography.

### BACKGROUND

Ion channels are integral membrane proteins that help establish and control the small voltage gradient across the plasma membrane of living cells by allowing the flow of ions down their electrochemical gradient. Nav1.8 is a voltage-gated sodium channel that plays a critical role in the generation and conduction of action potentials and is thus important for electrical signaling by most excitable cells. Since Nav1.8 is not present in cardiac muscle or neurons in the CNS, blockers of Nav1.8 will not directly affect those cells and can have less side effects than current pain medications.

### SPECIFICATION SUMMARY

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

**Host Species:** Mouse

**Antibody Class:** IgG2a

### SPECIFICITY

This antibody recognizes human, mouse, and rat Nav1.8. It does not cross-react with other Nav channels.

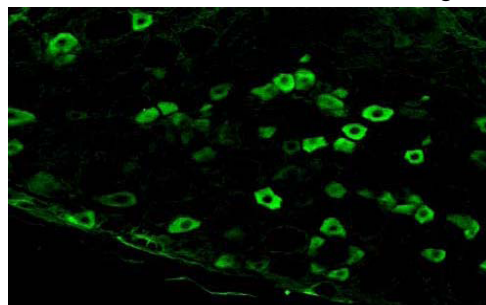
### APPLICATIONS

*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



Immunofluorescent staining of rat dorsal root ganglia cryosections.

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.

### DILUTION INSTRUCTIONS

Dilute in PBS or medium which is identical to that used in the assay system.

### STORAGE AND STABILITY

This antibody is stable for at least one (1) year at -20°C. Avoid repeated freezing and thawing.

*For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.*