UC Davis/NIH NeuroMab Facility
Department of Neurobiology, Physiology and Behavior, UC Davis, Davis CA 95616-8519
http://neuromab.ucdavis.edu neuromab@ucdavis.edu (530) 752-8398

Anti-Nav1.8 sodium channel, NeuroMab clone N134/12

Immunogen:
Fusion protein amino acids 1724-1956 (cytoplasmic C-terminus) of rat Nav1.8 (also known as Sodium channel protein type 10 or X subunit alpha, Voltage-gated sodium channel subunit alpha Nav1.8, Peripheral nerve sodium channel 3, PN3 or Sensory neuron sodium channel, accession number Q62968)
Mouse: 93% identity (220/235 amino acids identical)
Human: 85% identity (200/234 amino acids identical)
>50% identity with Nav1.7 and Nav1.5

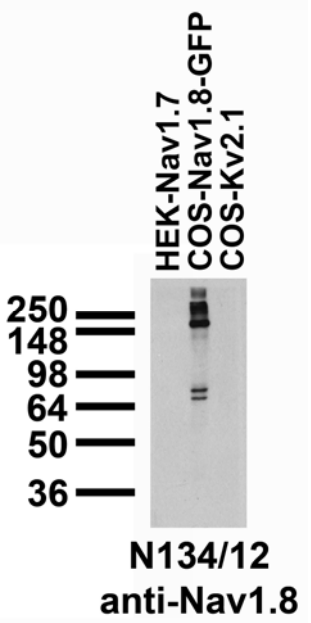
Monoclonal antibody info:
Mouse strain: Balb/C
Myeloma cell: SP2/0
Mouse Ig Isotype: IgG2a

NeuroMab Applications:
Immunoblot, Immunocytochemistry and Immunohistochemistry

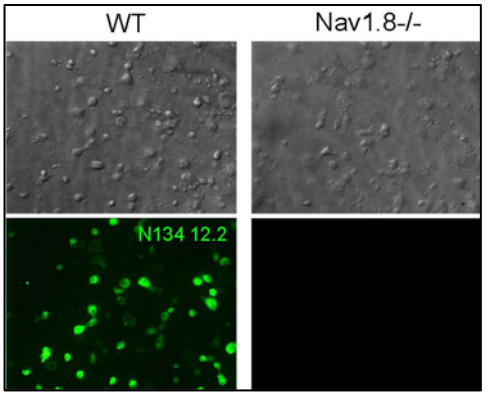
Species Reactivity: mouse, rat, human

Does not react with Nav1.7

MW: 220 kDa



Top: stable/transfected cell immunoblot: extracts of HEK cells stably expressing Nav1.7 and COS cells transiently transfected with GFP-tagged Nav1.8 or untagged Kv2.1 plasmids and probed with N134/12 TC supe.



Middle: immunofluorescence staining of cultured dorsal root ganglia neurons from Nav1.8 WT and KO mice with N134/12 TC supe. Image courtesy of Dr. Joel Black, Dr. Sulayman Dib-Hajj and Dr. Steve Waxman, Yale University.

Bottom: immunofluorescence staining of rat dorsal root ganglia cryosections. N134/12 TC supe = green, neurofilament = red. Image courtesy of Dr. Joel Black, Dr. Sulayman Dib-Hajj and Dr. Steve Waxman, Yale University.