10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SCN9A Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant SCN9A.
Catalog # AT3795a

Product Information

Application	WB
Primary Accession	Q15858
Other Accession	NM_002977
Reactivity	Human, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	5A11
Calculated MW	226372

Additional Information

Gene ID	6335
Other Names	Sodium channel protein type 9 subunit alpha, Neuroendocrine sodium channel, hNE-Na, Peripheral sodium channel 1, PN1, Sodium channel protein type IX subunit alpha, Voltage-gated sodium channel subunit alpha Nav17, SCN9A, NENA
Target/Specificity	SCN9A (NP_002968, 269 a.a. ~ 339 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	SCN9A Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

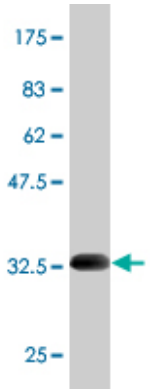
This gene encodes a voltage-gated sodium channel which plays a significant role in nociception signaling. Mutations in this gene have been associated with primary erythermalgia, channelopathy-associated insensitivity to pain, and paroxysmal extreme pain disorder.

References

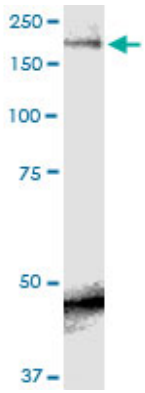
Sodium channel Na v 1.7 immunoreactivity in painful human dental pulp and burning mouth syndrome.

Beneng K, et al. BMC Neurosci, 2010 Jun 8. PMID 20529324. Alternative splicing may contribute to time-dependent manifestation of inherited erythromelalgia. Choi JS, et al. Brain, 2010 Jun. PMID 20478850. Mutations at opposite ends of the DIII/S4-S5 linker of sodium channel Na V 1.7 produce distinct pain disorders. Cheng X, et al. Mol Pain, 2010 Apr 29. PMID 20429905. Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614. Pain perception is altered by a nucleotide polymorphism in SCN9A. Reimann F, et al. Proc Natl Acad Sci U S A, 2010 Mar 16. PMID 20212137.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (33.55 KDa) .



SCN9A monoclonal antibody (M01), clone 5A11. Western Blot analysis of SCN9A expression in rat testis.