

SCN11A Antibody (monoclonal) (M04)**Mouse monoclonal antibody raised against a partial recombinant SCN11A.****Catalog # AT3791a****Specification**

SCN11A Antibody (monoclonal) (M04) - Product Information

Application	WB, E
Primary Accession	O9UI33
Other Accession	NM_014139
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	204922

SCN11A Antibody (monoclonal) (M04) - Additional Information**Gene ID** 11280**Other Names**

Sodium channel protein type 11 subunit alpha, Peripheral nerve sodium channel 5, PN5, Sensory neuron sodium channel 2, Sodium channel protein type XI subunit alpha, Voltage-gated sodium channel subunit alpha Nav19, hNaN, SCN11A, SCN12A, SNS2

Target/Specificity

SCN11A (NP_054858, 1726 a.a. ~ 1791 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

SCN11A Antibody (monoclonal) (M04) is for research use only and not for use in diagnostic or therapeutic procedures.

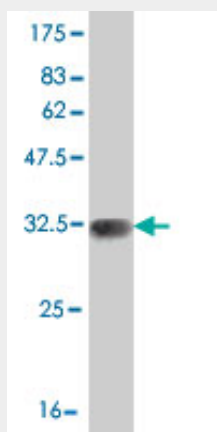
SCN11A Antibody (monoclonal) (M04) - Protocols

Provided below are standard protocols that you may find useful for product applications.

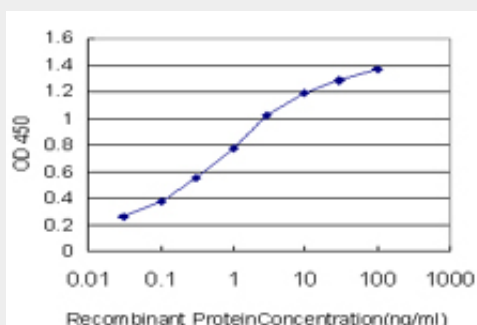
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SCN11A Antibody (monoclonal) (M04) - Images



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (33 kDa) .



Detection limit for recombinant GST tagged SCN11A is approximately 0.03 ng/ml as a capture antibody.

SCN11A Antibody (monoclonal) (M04) - Background

Voltage-gated sodium channels are membrane protein complexes that play a fundamental role in the rising phase of the action potential in most excitable cells. Alpha subunits, such as SCN11A, mediate voltage-dependent gating and conductance, while auxiliary beta subunits regulate the kinetic properties of the channel and facilitate membrane localization of the complex. Aberrant expression patterns or mutations of alpha subunits underlie a number of disorders. Each alpha subunit consists of 4 domains connected by 3 intracellular loops; each domain consists of 6 transmembrane segments and intra- and extracellular linkers.

SCN11A Antibody (monoclonal) (M04) - References

International Union of Pharmacology. XLVII. Nomenclature and structure-function relationships of voltage-gated sodium channels. Catterall WA, et al. Pharmacol Rev, 2005 Dec. PMID 16382098. Expression of alternatively spliced sodium channel alpha-subunit genes. Unique splicing patterns are observed in dorsal root ganglia. Raymond CK, et al. J Biol Chem, 2004 Oct 29. PMID 15302875. Na⁺ channel Nav1.9: in search of a gating mechanism. Delmas P, et al. Trends Neurosci,

2003 Feb. PMID 12536125. Neurotrophin-evoked depolarization requires the sodium channel Na(V)1.9. Blum R, et al. Nature, 2002 Oct 17. PMID 12384689. Nomenclature of voltage-gated sodium channels. Goldin AL, et al. Neuron, 2000 Nov. PMID 11144347.