

Product Information

MemDX™ Membrane Protein Human NFASC (Neurofascin)

Cat. No.: **MP0053J**

This product is for research use only and is not intended for diagnostic use.

This product is a 131.1 kDa Human NFASC membrane protein expressed in HEK293T. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

NFASC

Protein Length

Full-length

Protein Class

Transmembrane

Molecular Weight

131.1 kDa

TMD

1

Sequence

MARQPPPPWVHAAFLCLLSLGAIEIPMDLTQPPTITKQSAKDHIVDPRDNILIECEAKGNPAPSFHWT
RNSRFFNIAKDPRVSMRRRSGTLVIDFRSGGRPEEYEGEYQCFARNKFGTALSNRIRLQVSKSPLWPKEN
LDPVVVQEGAPLTLQCNPPLPSPVIFWMSSSMEPITQDKRVSQGHNGDLYFSNVMLQDMQTDYSCNAR
FHFTHTIQQKNPFTLKVLTNHPYNDSSLRNHPDMYSARGVAERTPSFMYPQGTASSQMVLRGMDLLLECI
ASGVPTPDIAWYKKGDLPSDKAKFENFNKALRITNVSEEDSGEYFCLASNKMGSIRHTISVRVKAAPYW
LDEPKNLILAPGEDGRLVCRANGNPKPTVQWMVNGEPLQSAPPNPNREVAGDTIIFRDTQISSRAVYQCN
TSNEHGYLLANAFVSVLDVPPRMLSPRNQLIRVILYNRTRLDPCFFGSPITLRFKNGQGSNLDGGNYH
VYENGSLKIRKEDQGIYTCVATNILGAENQVRLEVKDPTRIYRMPEDQVARRGTTVQLECRVKHDP
SLKLTVSWLKDDEPLYIGNRMKKEDDSLTFGVAERDQGSYTCVASTELDQDLAKAYLTVLADQATPTNR
LAALPKGRPDPRDLELTDLAERSVRLTWIPGDANNSPITDYVVQFEEDQFQPGVWHDHKSYPGVSNSAV
LRLSPYVNYQFRVIAINEVGSSHPSPSERYRTSGAPPESNPGDVKGEGTRKNNMEITWTPMNATSAFGP
NLRYIVKWRRRETREAWNNTVWGSRYVVGQTPVYVPYAIRVQAENDFGKGPEPEPVIGYSGEDYPRAAP
TEVKVRVMNSTAISLQWNRVYSDTVQGQLREYRAYYWRESSLLKNLWVSQKRQQASFPGDRLRGVVSRLF
PYSNYKLEMVVVNGRGDGRSETKEFTTPEGVPSAPRRFRVRQPNLETINLEWDHPEHPNGIMIGYTLKY
VAFNGTKVGKQIVENFSPNQTKFTVQRTDPVSRYRFTLSARTQVGSGEAVTEESPAPPNEATPTAAYTN
QADIATQGWFIGLMCAIALLVILLIVCFIKRSRGGKYPVREKKDVPLGPEDPKEEDGSFDYSDENKPL
QGSQTSLDGTIKQESDDSLVDYGEKGEGQFNEDGSFIGQYTVKKDKEETEGNESSEATSPVNAISLA

Product Description

Expression Systems

HEK293T

Tag

C-Myc/DDK

Form

Liquid

Purification

Anti-DDK affinity column followed by conventional chromatography steps

Purity

> 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer

25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

NFASC

Full Name

Neurofascin

Introduction

This gene encodes an L1 family immunoglobulin cell adhesion molecule with multiple IGcam and fibronectin domains. The protein functions in neurite outgrowth, neurite fasciculation, and organization of the axon initial segment (AIS) and nodes of Ranvier on axons during early development. Both the AIS and nodes of Ranvier contain high densities of voltage-gated Na⁺ (Nav) channels which are clustered by interactions with cytoskeletal and scaffolding proteins including this protein, gliomedin, ankyrin 3 (ankyrin-G), and betaIV spectrin. This protein links the AIS extracellular matrix to the intracellular cytoskeleton. This gene undergoes extensive alternative splicing, and the full-length nature of some variants has not been determined.

Alternative Names

NF; NRCAML; NEDCPMD; neurofascin isoform 140; neurofascin homolog

Gene ID

[23114](#)

UniProt ID

[Q94856](#)