

Recombinant Human NFASC Protein, C-Myc/DDK-tagged

Cat. No. NFASC-12H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Homo sapiens neurofascin (NFASC), transcript variant 1 with C-Myc/DDK-tag was expressed in HEK293T.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	135 kDa
AA Sequence	MARQPPPPWVHAAFLLCLLSLGGAIEIPMDPSIQNELTQPPTITKQSAKDHIVDPRDNI LIECEAKGNPAPSFHWTRNSRFFNIAKDPRVSMRRRSGTLVIDFRSGGRPEEYEGE YQCFARNKFGTALSNRIRLQVSKSPLWPKENLDPVVVQEGAPLTLQCNPPPGLPSP VIFWMSSSMEPITQDKRVSQGHNGDLYFSNVMLQDMQTDYSCNARFHFHTTIQKQK NPFTLKVLTTTRGVAERTPSFMYPQGTASSQMVLRGMDLLLECIASGVPTPDIAWYKK

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GGDLPSDKAKFENFNKALRITNVSEEDSGEYFCLASNKMGSIRHTISVRVKAAPYWL
 DEPKNLILAPGEDGRLVCRANGNPKPTVQWMVNGEPLQSAPPNPNREVAGDTIIFR
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 FGSPITLRWFKNGQGSNLDGGNYHVYENGSLKMKIRKEDQGIYTCVATNILGKAE
 NQVRLEVKDPTRIYRMPEDQVARRGTTVQLECRVKHDPSTLKLTVSWLKDDEPLYIG
 NRMKKEDDSLTFGVAERDQGSYTCVASTELDQDLAKAYLTVLADQATPTNRLAALP
 KGRPDRPRDLELTDLAERSVRLTWIPGDANNSPITDYVVQFEEDQFQPGVWHDHSK
 YPGSVNSAVLRLSPYVNYQFRVIAINEVGSSHPSPSERYRTSGAPPESNPGDVKGE
 GTRKNNMEITWTPMNATSAFGPNLRYIVKWRRRETREAWNNTVWGSRYVVGQT
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 EHPNGIMIGYTLKYVAFNGTKVGKQIVENFSPNQTKFTVQRTDPVSRYRFTLSARTQ
 VGSGEAVTEESPAPPNEATPTAAPPTLPPTTVGATGAVSSTDATAIAATTEATTVPPIIP
 TVAPTTIATTTTVATTTTTTAAATTTTESPPTTTSGTKIHESAPDEQSIWNVTVLPNSK
 WANITWKHNFGPGTDFVVEYIDSNHTKKTVPVKAQAQPIQLTDLYPGMTYTLRVYSR
 DNEGISSTVITFMTSTAYTNNQADIATQGWFIGLMCAIALLVILLIVCFIKRSRGGKYP
 VREKKDVPLGPEDPKEEDGSFDYSDENKPLQGSQTSLDGTIKQQESDDSLVDYGE
 GGEGQFNEDGSFIGQYTVKKDKKEETEGNESSEATSPVNAIYSLATRTRPLEQKLISE
 EDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

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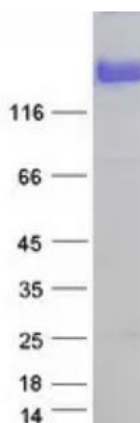
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GENE INFORMATION

Gene Name	NFASC neurofascin [Homo sapiens (human)]
Official Symbol	NFASC
Synonyms	NFASC; neurofascin; NF; NRCAML; NEDCPMD; neurofascin; neurofascin homolog
Gene ID	23114
mRNA Refseq	NM_001005388
Protein Refseq	NP_001005388
MIM	609145
UniProt ID	O94856

SDS-PAGE



Coomassie blue staining of purified NFASC protein. The protein was produced from HEK293T cells transfected with NFASC cDNA clone using MegaTran 2.0.

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