

Product datasheet for **TP326485L**

Alpha Fodrin (SPTAN1) (NM_001130438) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human spectrin, alpha, non-erythrocytic 1 (alpha-fodrin) (SPTAN1), transcript variant 1, 1 mg

Species: Human

Expression Host: HEK293T



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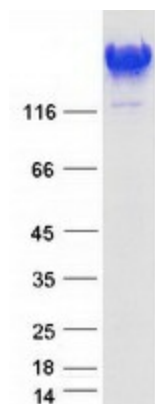
Expression cDNA >RC226485 representing NM_001130438
Clone or AA **Red**=Cloning site **Green**=Tags(s)
Sequence:

MDPSGVKVLETAEDIQERRQQVLD RYHRFKELSTLRRQKLEDSYRFQFFQRDAEELEKWIQEKLQIASDE
 NYKDPTNLQGKLQKHQAFEAEVQANSGAIVKLD ETGNLMISEGHFASSETIRTRLMELHRQWELLLEKMRE
 KGIKLLQAQKLVQYLRECEVDMDWINDKEAIVTSEELGQDLEHVEVLQKKFEFQTDMAAHEERVNEV NQ
 FAAKLIQEQHPPEELIKTKQDEVNAAWQRLKGLALQRQGKLFGAAEVQRFNRD VDETISWIKEKEQLMAS
 DDFGRDLASVQALLRKHEGLERDLAALEDKVKALCAEADRLQQSHPLSATIQVQKREELITNWEQIRTLA
 AERHARLND SYRLQRFLADFRDLTSWVTEMKALINADELASDVAGAEALLDRHQEHKGEIDAHEDSFKSA
 DESGQALLAAGHYASDEVREKLTVLSEERAALLELWELRRQQYEQCMDLQLFYRDTEQVDNWMSKQEAFL
 LNEIDLGDSLDSVEALLKKHEDFEKLSAQEEKITALDEFATKLIQNNHYAMEDVATRRDALLSRRNALHE
 RAMRRRAQLADSFHLQQFFRDSDELKSWVNEKMK TATDEAYKDPSNLQGKVQKHQAFEALSANQSRIDA
 LEKAGQKLIDVNHYAKDEVAARMNEVISLWKKLLEATELKGIKLREANQQQQFN RNVEDIELWLYEVEGH
 LASDDYGKDLTNVQNLQKKHALLEADVAAHQDRIDGITIARQFQDAGHFDAENIKKKQEALVARYEALK
 EPMVARKQKLADSLRQLQFRDVEDEETWIREKEPIA ASTNRGKDLIGVQNLKKHQALQAEIAGHEPRI
 KAVTQKGNAMVEEGHFAAEDVKAKLHEL NQKWEALKAKASQRRQDLEDSLQAQQYFADANEAESWMREKE
 PIVGSTDYGKDEDSAEALLKKHEALMSDLSAYGSSIQALREQAQSCRQQVAPTDD ETGKELVLALYDYQE
 KSPREVTMKKGDILTLLNSTNKDWWKVEVND RQGFVPAAYVKKLDPAQSASRENLL EEQSIALRQEQID
 NQTRITKEAGSVSLRMKQVEELYHSLLELGEKRKGMLEKSKKFMLFREANELQQWINEKEAALTSEEVG
 ADLEQVEVLQKKFDDFQKDLKANESRLKDINKVAEDLESEGLMAEEVQAVQQQEVYGMMPRDE TDSKTAS
 PWKSARLMVHTVATFNSIKELNERWRSLQQLAEERSQLLSAHEVQRFHRDADETKEWIEEK NQALNTDN
 YGHDLASVQALQRKHEGFERDLAALGDKVNSLGETAERLIQSHPESAEDLQEKCTELNQAWSSLGKRADQ
 RKAKLGDSDHLQRFLSDFRDLMSWINGIRGLVSSDELAKDVTGAEALLERHQEHRTEIDARAGTFQAFEQ
 FGQQLLAHGHYASPEIKQKLDILDQERADLEKAWVQRRMMLDQCLELQLFHRDCEQAENWMAAREAF LNT
 EDKGDSDLDSVEALIKKHEDFDKAINVQEEKIAALQAFADQLIAAGHYAKGDISSRRNEVLDRWRRLKAQM
 IEKRSKLGESQTLQQFSRDVEIEAWISEKLQTASDES YKDPTNIQLSKLLSKHQKHQAFEAE LHANADR
 IRGVIDMGNSLIERGACAGSEDAVKARLAALADQWQFLVQKSAEKSQKLKEANKQQNFNTG IKDFDFWLS
 EVEALLASEDYGKDLASVNNLLKKHQLEADISAHEDRLKDLNSQADSLMTSSAFDTSQVKDKRDTINGR
 FQIKISMAASRRAKLNESHRLHQFFRDMDEESWIKEKLLVGS EYGRDLTGVQNLRKKHKRLEAE LAA
 HEPAIQGVLDTGKKLSDDNTIGKEEIQRLAQFVEHWKELKQLAAARGQRLEESLEYQQFVANVEEEEAW
 INEKMTLVASEDYGDTLAAIQGLLKKHEAFETDFTVHKDRVNDVCTNGQDLIKKNNHHEENISSKMKGLN
 GKVSDLEKAAAQRKAKLDENSAFLQFNWKADVESWIGEKENSLKTD DYGRLSSVQTLTKQETFDAGL
 QAFQQEGIANITALKDQLLAAKHVQSKAIEARHASLMKRWSQLLANSAARKKKLLEAQSHFRKVEDLFLT
 FAKKASAFNSWFENAEEDLTDPVRCNSLEEIKALREAHDAFRSSLSSAQADFNQLAELDRQIKSFRV ASN
 PYTWFTMEALEETWRNLQKIIKERELELQKEQRRQEENDKLRQEFAQHANAFHQWIQETR TYLLDGSCMV
 EESGTLESQLEATKRKHQEIRAMRSQKKIEDLGAAMEEALILDNKYTEHSTVGLAQQWDQLDQLGMRMQ
 HNLEQQIQARNTTGVT EEALKEFSMMFKHFDDKSGRLNHQEFKSLRSLGYDLPMVEEGEPDPEFEAIL
 DTVDPNRDGHVSLQEYMAFMISRETENVKSSEEIESAFRAL SSEGKPYVTKEELYQNL TREQADYCVSHM
 KPYVDGKGRELPTAFDYVEFTRSLFVN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW:	284.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_001123910
Locus ID:	6709
UniProt ID:	Q13813
RefSeq Size:	7907
Cytogenetics:	9q34.11
RefSeq ORF:	7431
Synonyms:	DEE5; EIEE5; NEAS; SPTA2
Summary:	Spectrins are a family of filamentous cytoskeletal proteins that function as essential scaffold proteins that stabilize the plasma membrane and organize intracellular organelles. Spectrins are composed of alpha and beta dimers that associate to form tetramers linked in a head-to-head arrangement. This gene encodes an alpha spectrin that is specifically expressed in nonerythrocytic cells. The encoded protein has been implicated in other cellular functions including DNA repair and cell cycle regulation. Mutations in this gene are the cause of early infantile epileptic encephalopathy-5. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2010]
Protein Families:	Druggable Genome
Protein Pathways:	Tight junction

Product images:

Coomassie blue staining of purified SPTAN1 protein (Cat# [TP326485]). The protein was produced from HEK293T cells transfected with SPTAN1 cDNA clone (Cat# [RC226485]) using MegaTran 2.0 (Cat# [TT210002]).