

Product datasheet for **TP326485M**

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, 100 µg
Species:	Human
Expression Host:	HEK293T



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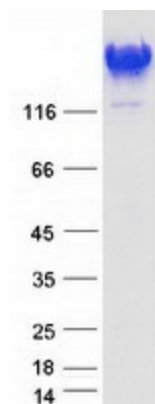
Expression cDNA >RC226485 representing NM_001130438
Clone or AA **Red**=Cloning site **Green**=Tags(s)
Sequence:

MDPSGVKVLETAEDIQERRQQVLDTRYHRFKELSTLRRQKLEDSYRFQFFQRDAEELEKWIQEKLQIASDE
 NYKDPTNLQGKLQKHQAFAEAEVQANSQAIVKLDDETNLMISEGHFASSETIRTRLMELHRQWELLLEKMRE
 KGIKLLQAQKLQVYLRECEVDMDWINDKEAIVTSEELGQDLEHVEVLQKKFEFQTDMAAHEERVNEVQ
 FAAKLIQEQHPPEELIKTKQDEVNAAWQRLKGLALQRQGKLFGAAEVQRFNRDQVDETIWIKKEQLMAS
 DDFGRDLASVQALLRKHGELERDLAALEDKVKALCAEADRLQQSHPLSATIQVQKREELITNWEQIRTLA
 AERHARLNDYRQLRFLADFRDLTSWVTEMKALINADELASDVAGAEALLDRHQEHKGEIDAHEDSFKSA
 DESGQALLAAGHYASDEVREKLTVLSEERAALLELWELRRQYEQCMDLQLFYRDTEQVDNWMSKQEAFL
 LNEIDLGDSLDSVEALLKKHEDFEKLSAQEEKITALDEFATKLIQNNHYAMEDVATRRDALLSRRNALHE
 RAMRRRAQLADSFHLQQFFRDSDELKSWVNEKMKATDEAYKDPSNLQGGVQKHQAFAEELSANQSRIDA
 LEKAGQKLIDVNHYAKDEVAARMNEVISLWKKLLEATELKGIKLREANQQQQFNRNVEDIELWLVEVEGH
 LASDDYGKDLTNVQNLQKKHALLEADVAHQDRIDGITIARQFQDAGHFDAENIKKKQEALVARYEALK
 EPMVARKQKLADSLRQLQFRDVEDEETWIREKEPIAASTNRGKDLIGVQNLKKHQALQAEIAGHEPRI
 KAVTQKGNAMVEEGHFAAEDVKAKLHELQKWEALKAKASQRRQDLEDSLQAQQYFADANEAESWMREKE
 PIVGSTDYGKDEDSAEALLKKHEALMSDLSAYGSSIQALREQAQSCRQQVAPTDDDETGKELVLALYDYQE
 KSPREVTMKKGDILTLLNSTNKDWWKVEVNDRQGFVPAAYVKKLDPAQASARENLLLEEQGSIALRQEQID
 NQTRITKEAGSVSLRMKQVEELYHSLLELGEKRGKMLEKSKKFMFLFREANELQQWINEKEAALTSEEVG
 ADLEQVEVLQKKFDDFQKDLKANESRLKDKINVAEDLESEGLMAEEVQAVQQQEVYGMMPREDTDSKTAS
 PWKSARLMVHTVATFNSIKELNERWRSLLQLAERSQLLGSAAHEVQRFHRDADETKEWIEEKQALNTDN
 YGHDLASVQALQRKHEGFERDLAALGDKVNSLGETAERLIQSHPEAEDLQEKCTELNQAWSLGRADQ
 RKAKLGDSDHLQRFLSDFRDLMSWINGIRGLVSSDELAKDVTGAEALLERHQEHRTEIDARAGTFQAFEQ
 FGQQLLAHGHYASPEIKQKLDILDQERADLEKAWVQRRMLDQCLELQLFHRDCEQAENWMAAREAFNLT
 EDKGDLSLDSVEALIKKHEDFDKAINVQEEKIAALQAFADQLIAAGHYAKGDISSRRNEVLDRWRLKAQM
 IEKRSKLGESQTLQQFSRDVEIEAWISEKLQASDESQYKDPNTIQLSKLLSKHQKHQAFAEELHANADR
 IRGVIDMGNSLIERGACAGSEDAVKARLAALADQWQFLVQKSAEKSQKLKEANKQNFNTGKDFDFWLS
 EVEALLASEDYGKDLASVNNLLKKHQLLEADISAHEDRLKDLNSQADSLMTSSAFDTSQVKDKRDTINGR
 FQIKISMAASRRAKLNESHRLHQFFRDMDEESWIKEKLLVGSSEYGRDLTGVQNLKHKHRLAEELAA
 HEPAIQGVLDTGKKLSDDNTIGKEEQRLAQFVEHWKELKQLAAARGQRLEESLEYQQFVANVEEEEAW
 INEKMTLVASEDYGDTLAAIQGLLKKHEAFETDFTVHKDRVNDVCTNGQDLIKKNNHHEENISSKMKGLN
 GKVSDLEKAAAQRKAKLDENSAFLQFNWKADVESWIGEKENSLKTDYGRDLSSVQTLTKQETFDAGL
 QAFQQEGIANITALKDQLLAAKHVQSKAIEARHASLMKRWSQLLANSAARKKKLLEAQSHFRKVEDLFLT
 FAKKASAFNSWFENAEEDLTPVRCNSLEEIKALREAHDAFRSSLSSAQADFNQLAELDRQIKSFRVASN
 PYTWFTMEALEETWRNLQKIIKERELQKEQRRQEENDKLRQEFAQHAFHQWIQETRTYLLDGSCMV
 EESGTLESQLEATKRKHQEIARAMRSQKIKIEDLGAAMEEALILDNKYTEHSTVGLAQWQDQLDQLGMRMQ
 HNLEQQIQARNTTGVTTEEALKEFSMMFKHFDKDKSGRLNHQEFKSLRSLGYDLPMVEEGEPDPEFEAIL
 DTVDPNRDGHVSLQEYMAFMISRETENVKSSEEIESAFRLSSEGGKPYVTKEELYQNLTREQADYCVSHM
 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]).