

Product datasheet for **TP318210L**

Alpha Fodrin (SPTAN1) (NM_003127) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Homo sapiens spectrin, alpha, non-erythrocytic 1 (alpha-fodrin) (SPTAN1), transcript variant 2, 1 mg
Species:	Human
Expression Host:	HEK293T



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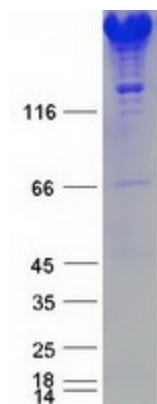
Expression cDNA >RC218210 representing NM_003127
Clone or AA **Red**=Cloning site **Green**=Tags(s)
Sequence:

MDPSGVKVLETAEDIQERRQQVLDTRYHRFKELSTLRRQKLEDSYRFQFFQRDAEELEKWIQEKLQIASDE
 NYKDPTNLQGKLQKHQAFAEAEVQANSGAIVKLDDETNLMISEGHFASETIRTRLMELHRQWELLLEKMRE
 KGIKLLQAQKLVQYLRECEDVMDWINDKEAIVTSEELGQDLEHVEVLQKKFEFQTDMAAHEERVNEVNO
 FAAKLIQEQHPPEELIKTKQDEVNAAWQRLKGLALQRQGKLFGAEEVQRFNRDVEDETISWIKEKEQLMAS
 DDFGRDLASVQALLRKHEGLERDLAALEDKVKALCAEADRLQQSHPLSATQIQVKREELITNWEQIRTLA
 AERHARLNDYSYRLQRFADFRDLTSWVTEMKALINADELASDVAGAEALLDRHQEHKGEIDAHEDSFKSA
 DESGQALLAAGHYASDEVREKLTVLSEERAALLELWELRRQQYEQCMDLQLFYRDTEQVDNWMSKQEAFL
 LNEIDLGDSLDSVEALLKKHEDFEKLSAQEEKITALDEFATKLIQNNHYAMEDVATRRDALLSRNALHE
 RAMRRRAQLADSFHLQQFFRDSDELKSWVNEKMKATDEAYKDPSNLQGGKQKHQAFAEELSANQSRIDA
 LEKAGQKLIDVNHAKDEVAARMNEVISLWKKLLEATELKGIKLREANQQQQFNRNVEDIELWLYEVEGH
 LASDDYGDLTNVQNLQKKHALLEADVAHQDRIDGITIARQFQDAGHFDAENIKKKQEALVARYEALK
 EPMVARKQKLADSLRQLQFRDVEDEETWIREKEPIAASTNRGKDLIGVQNLKKHQALQAEIAGHEPRI
 KAVTQKGNAMVEEGHFAAEDVKAKLHELNQKWEALKAKASQRRQDLEDSLQAQQYFADANEAESWMREKE
 PIVGSTDYGKDEDSAEALLKKHEALMSDLSAYGSSIQALREQAQSCRQQVAPTDDDETGKELVLALYDYQE
 KSPREVTMKKGDILTLLNSTNKDWWKVEVNDRQGFVPAAYVKKLDPAQSASRENLLLEEQGSIALRQEQID
 NQTRITKEAGSVSLRMKQVEELYHSLLELGEKRGKMLEKSKKFMLFREANELQQWINEKEAALTSEEVG
 ADLEQVEVLQKKFDDFQKDLKANESRLKDINKVAEDLESEGLMAEEVQAVQQQEVYGMMPREDTDSKTAS
 PWKSARLMVHTVATFNSIKELNERWRSLLQLAERSQLLGSAAHEVQRFHRDADETKEWIEEKQALNTDN
 YGHDLASVQALQRKHEGFERDLAALGDKVNSLGETAERLIQSHPEAEDLQEKCTELNQAWSLQKGRADQ
 RKAKLGDSDHDLQRFSLDFRDLMSWINGIRGLVSSDELAKDVTGAEALLERHQEHRTEIDARAGTFQAFEQ
 FGQQLLAHGHYASPEIKQKLDILDQERADLEKAWVQRRMLDQCLELQLFHRDCEQAENWMAAREAFNLT
 EDKGDSDLDSVEALIKKHEDFDKAINVQEEKIAALQAFADQLIAAGHYAKGDISSRRNEVLDRWRRLKAQM
 IEKRSKLGESQTLQFSRDVEIEAWISEKLQTASDESYKDPTNIQSKHQKHQAFAELHANADRIRGVI
 DMGNSLIERGACAGSEDAVKARLAALADQWQFLVQKSAEKSQKLKEANKQNFNTGKDFDFWLSEVEAL
 LASEDYGKDLASVNNLLKKHQLEADISAHEDRLKDLNSQADSLMTSSAFDTSQVKDKRDTINGRFQKIK
 SMAASRRRAKLNESHRLHQFFRDMDDEESWIKEKLLVGSSEYGRDLTGQVQNLRRKKHRLAEELAAHEPAI
 QGVLDTGKKLSDNTIGKEEIQRRLAQFVEHWKELQLAAARGQRLEESLEYQQFVANVEEEEAWINEKM
 TLVASEDYGDTLAAIQGLLKKHEAFETDFTVHKDRVNDVCTNGQDLIKKNNHHEENISSKMKGLNGKVSD
 LEKAAAQRKAKLDENSAFLQFNWKADVWESWIGEKENSLKTDYGRDLSSVQTLTKQETFDAGLQAFQQ
 EGIANITALKDQLLAAKHVQSKAIEARHASLMKRWSQLLANSAARKKKLLEAQSHFRKVEDLFLTFAKKA
 SAFNSWFENAEEDLTDPVRCNSLEEIKALREAHDAFRSSLSSAQADFNQLAELDRQIKSFRVASNPYTW
 TMEALEETWRNLQKIIKERELQKEQRRQEENDKLRQEFQAQHANAQHWIQUETRYLLDGSVMVEESGT
 LESQLEATKRKHQEIAMRSQKQKIEDLGAAMEEALILDNKYTEHSTVGLAQQWDQLDQLGMRMQHNLEQ
 QIQARNTTGVTEEALKEFSMMFKHFDKDKSGLRNHQEFKSLRSLGYDLPVMEEGEPDPEFEAILDTPVDP
 NRDGHVSLQEYMAFMISRETENVKSSEEIESAFRALSSEGKPYVTKEELYQNLTREQADYCVSHMKPYVD
 GKGRELPTAFDYVEFTRSLFVN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW:	284.4 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_003118
Locus ID:	6709
UniProt ID:	Q13813
RefSeq Size:	7892
Cytogenetics:	9q34.11
RefSeq ORF:	7416
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# [TP318210]). The protein was produced from HEK293T cells transfected with SPTAN1 cDNA clone (Cat# [RC218210]) using MegaTran 2.0 (Cat# [TT210002]).