

## Product datasheet for **TP326485**

### 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, 20 µg

Species: Human

Expression Host: HEK293T



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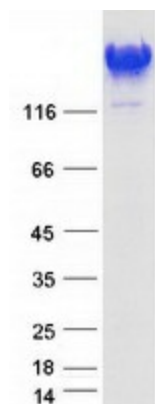
**Expression cDNA** >RC226485 representing NM\_001130438  
**Clone or AA** **Red**=Cloning site **Green**=Tags(s)  
**Sequence:**

MDPSGVKVLETAEDIQERRQQVLDTRYHRFKELSTLRRQKLEDSYRFQFFQRDAEELEKWIQEKLQIASDE  
 NYKDPTNLQGKLQKHQAFAEAEVQANSGAIVKLDDETNLMISEGHFASSETIRTRLMELHRQWELLLEKMRE  
 KGIKLLQAQKLVQYLRECEVDMDWINDKEAIVTSEELGQDLEHVEVLQKKFEFQTDMAAHEERVNEVNO  
 FAAKLIQEQHPPEELIKTKQDEVNAAWQRLKGLALQRQKLFGAAEVQRFNRDVEDETISWIKEKEQLMAS  
 DDFGRDLASVQALLRKHEGLERDLAALEDKVKALCAEADRLQQSHPLSATQIQVKREELITNWEQIRTLA  
 AERHARLNDYRQLRFLADFRDLTSWVTEMKALINADELASDVAGAEALLDRHQEHKGEIDAHEDSFKSA  
 DESGQALLAAGHYASDEVREKLTVLSEERAALLELWELRRQQYEQCMDLQLFYRDTEQVDNWMSKQEAFL  
 LNEIDLGDSLDSVEALLKKHEDFEKLSAQEEKITALDEFATKLIQNNHYAMEDVATRRDALLSRNALHE  
 RAMRRRAQLADSFHLQQFFRDSDELKSWVNEKMKATDEAYKDPSNLQGGVQKHQAFAEELSANQSRIDA  
 LEKAGQKLIDVNHAKDEVAARMNEVISLWKKLLEATELKGIKLREANQQQQFNRNVEDIELWLVEVEGH  
 LASDDYGDLTNVQNLQKKHALLEADVAHQDRIDGITIARQFQDAGHFDAENIKKKQEALVARYEALK  
 EPMVARKQKLADSLRQLQFRDVEDEETWIREKEPIAASTNRGKDLIGVQNLKKHQALQAEIAGHEPRI  
 KAVTQKGNAMVEEGHFAAEDVKAKLHELQKWEALKAKASQRRQDLEDSLQAQQYFADANEAESWMREKE  
 PIVGSTDYGKDEDSAEALLKKHEALMSDLSAYGSSIQALREQAQSCRQQVAPTDDDETGKELVLALDYQE  
 KSPREVTMKKGDILTLLNSTNKDWWKVEVNDRQGFVPAAYVKKLDPAQASARENLLLEEQGSIALRQEQID  
 NQTRITKEAGSVSLRMKQVEELYHSLLELGEKRGKMLEKSKKFMLFREANELQQWINEKEAALTSEEVG  
 ADLEQVEVLQKKFDDFQKDLKANESRLKDKVAEDLESEGLMAEEVQAVQQQEVYGMMPREDTDSKTAS  
 PWKSARLMVHTVATFNSIKELNERWRSLLQLAERSQLLGSAAHEVQRFHRDADETKEWIEEKQALNTDN  
 YGHDLASVQALQRKHEGFERDLAALGDKVNSLGETAERLIQSHPEAEDLQEKCTELNQAWSSLGKRADQ  
 RKAKLGDSDHLQRFLSDFRDLMSWINGIRGLVSSDELAKDVTGAEALLERHQEHRTEIDARAGTFQAFEQ  
 FGQQLLAHGHYASPEIKQKLDILDQERADLEKAWVQRRMLDQCLELQLFHRDCEQAENWMAAREAFNLT  
 EDKGDSDLDSVEALIKKHEDFDKAINVQEEKIAALQAFADQLIAAGHYAKGDISSRRNEVLDRWRRLKAQM  
 IEKRSKLGESQTLQQFSRDVEIEAWISEKLQTASDESYKDPTNIQLSKLLSKHQKHQAFAEELHANADR  
 IRGVIDMGNSLIERGACAGSEDAVKARLAALADQWQFLVQKSAEKSQKLKEANKQNFNTGKDFDFWLS  
 EVEALLASEDYGKDLASVNNLLKKHQLEADISAHEDRLKDLNSQADSLMTSSAFDTSQVKDKRDTINGR  
 FQIKISMAASRRAKLNESHRLHQFFRDMDEESWIKEKLLVGSSEYGRDLTGVQNLRKKHKLREAEALAA  
 HEPAIQGVLDTGKKLSDDNTIGKEEQRLAQFVEHWKELKQLAAARGQRLEESLEYQQFVANVEEEEAW  
 INEKMTLVASEDYGDTLAAIQGLLKKHEAFETDFTVHKDRVNDVCTNGQDLIKKNNHHEENISSKMKGLN  
 GKVSDLEKAAAQRKAKLDENSAFLQFNWKADVESWIGEKENSLKTDYGRDLSSVQTLTKQETFDAGL  
 QAFQQEGIANITALKDQLLAAKHVQSKAIEARHASLMKRWSQLLANSAARKKKLLEAQSHFRKVEDLFLT  
 FAKKASAFNSWFENAEEDLTPVRCNSLEEIKALREAHDAFRSSLSSAQADFNQLAELDRQIKSFRVASN  
 PYTWFTMEALEETWRNLQKIIKERELQKEQRRQEENDKLRQEFQHANAFHQWIQETRTYLLDGSCMV  
 EESGTLESQLEATKRKHQEIARAMRSQKIKIEDLGAAMEEALILDNKYTEHSTVGLAQQWDQLDQLGMRMQ  
 HNLEQQIQARNTTGVTTEEALKEFSMMFKHFDKDKSGRLNHQEFKSLRSLGYDLPMVEEGEPDPEFEAIL  
 DTVDPNRDGHVSLQEYMAFMISRETENVKSSEEIESAFRLSSEGGKPYVTKEELYQNLTREQADYCVSHM  
 KPYVDGKGRELPTAFDYVEFTRSLFVN

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-Myc/DDK

<b>Predicted MW:</b>	284.9 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_001123910</a>
<b>Locus ID:</b>	6709
<b>UniProt ID:</b>	<a href="#">Q13813</a>
<b>RefSeq Size:</b>	7907
<b>Cytogenetics:</b>	9q34.11
<b>RefSeq ORF:</b>	7431
<b>Synonyms:</b>	DEE5; EIEE5; NEAS; SPTA2
<b>Summary:</b>	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]
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	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]).