

## Product datasheet for TP318210

### 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, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC218210 representing NM_003127 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MDPSGVKVLTAEDIQERRQQVLDTRYHRFKELSTLRRQKLEDSYRFQFFQRDAEELEKWIQEKLQIASDE  
 NYKDPTNLQGKLQKHQAFEAQVANSQAIVKLEDETGNLMISEGHFASSETIRTRLMELHRQWELLEKMRE  
 KGIKLLQAQKLVQYLRECEDVMDWINDKEAIVTSEELGQDLEHVEVLQKKFEFQTDMAAHEERVNEVNQ  
 FAAKLIQEQHPPEELIKTKQDEVNAAWQRLKGLALQRQKGLFGAAEVQRFNRDDETISWIKKEQLMAS  
 DDFGRDLASVQALLRKHEGLERDLAALEDKVKALCAEADRLQQSHPLSATQIQVKREELITNWEQIRTLA  
 AERHARLNDSYRLQRFLADFRDLTSWVTEMKALINADELASDVAGAEALLDRHQEHKGEIDAHEDSFKSA  
 DESGQALLAAGHYASDEVREKLTVLSEERAALLELWELRRQQYEQCMDLQLFYRDTEQVDNWMMSKQEAF  
 L  
 LNEDLGDSDLDSVEALLKKHEDFEKLSAQEEKITALDEFATKLIQNNHYAMEDVATRRDALLSRRNALHE  
 RAMRRRAQLADSFHLQQFFRDSDELKSWVNEKMKATDEAYKDPSNLQGKQVQKHQAFEAELSANQSRI  
 DA  
 LEKAGQKLIDVNHYAKDEVAARMNEVISLWKKLLEATELKGIKLREANQQQFNRNVEDIELWLVEVEGH  
 LASDDYGDILTQNLQKKHALLEADVAAHQDRIDGITIQRQFQDAGHFDAENIKKKQEALVARYEALK  
 EPMVARKQKLADSLRLQQLFRDVEDEETWIREKEPIAASNRGKDLIGVQNLKKHQAQAEIAGHEPRI  
 KAVTQKGNAMVEEGHFAAEDVKAKLHELNQWEALKAKASQRRQDLEDSLQAQQYFADANEAESWMR  
 EKE  
 PIVGSTDYGDDESAEALLKKHEALMSDLSAYGSSIQALREQAQSCRQQVAPTDDDETGKELVLALYDYQE  
 KSPREVTMKGDLTLLNSTNKDWWWKEVNDRQGFVPAAYVKKLDPAQSASRENLLLEEQGSIALRQEID  
 NQTRITKEAGSVSLRMKQVEELYHSLLELGEKRGMLKESCKKFMFLFREANELQQWINEKEAALTSEEVG  
 ADLEQVEVLQKKFDDFQKDLKANESRLKDINKVAEDLESEGLMAEEVQAVQQQEVYGMMPREDETDSKTA  
 S  
 PWKSARLMVHTVATFNSIKELNERWRSLLQQLAERSQLLGSAAHEVQRFHRDADETKEWIEEKNQALNTD  
 N  
 YGHDLASVQALQRKHEGFERDLAALGDKVNSLGETAERLIQSHPEAEDLQEKCTELNQAWSSLGKRADQ  
 RKAKLGDSDLQRFLSDFRDLMSWINGIRGLVSSDELAKDVTGAEALLERHQEHRTEIDARAGTFQAFEQ



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FGQQLLAHGHYASPEIKQKLDILDQERADLEKAWVQRRMMLDQCLELQLFHRDCEQAENWMAAREAF  
 NT  
 EDKGDSDLDSVEALIKKHEDFDKAINVQEEKIAALQAFADQLIAAGHYAKGDISSRRNEVLDRWRRLKAQM  
 IEKRSLGESQTLQQFSRDVDEIEAWISEKLQTASDESYKDPTNIQSKHQKHQAFEELHANADRIRGVI  
 DMGNSLIERGACAGSEDAVKARLAALADQWQFLVQKSAEKSQKLKEANKQQNFNTGIKDFDFWLSEVEA  
 L  
 LASEDYGKDLASVNNLLKKHQLEADISAHEDRLKDLNSQADSLMTSSAFDTSQVKDKRDTINGRFQKIK  
 SMAASRRAKLNESHRLHQFFRDMDEESWIKEKLLVGSSEDYGRDLTGVQNLKHKHRLAEELAAHEPAI  
 QGVLDTGKLLSDDNTIGKEEIQQLAQFVEHWKELKQLAAARGQRLEESLEYQQFVANVEEEEAWINEKM  
 TLVASEDYGDTLAAIQGLLKKHEAFETDFTVHKDRVNDVCTNGQDLIKNNHHEENISSKMKGLNGKVS  
 LEKAAAQRKAKLDENSAFLQFNWKADVESWIGEKENSLKTDYGRDLSSVQTLTKQETFDAGLQAFQQ  
 EGIANITALKDQLLAAKHVQSKAIEARHASLMKRWSQLLANSAARKKLLAQSHFRKVEDLFLTFAKKA  
 SAFNSWFENAEEDLTDPVRCNSLEEIKALREAHDAFRSSLSSAQADFNQLAELDRQIKSFRVASNPYTFW  
 TMEALEETWRNLQKIIKERELELQKEQRRQEENDKLRQEFAQHANAFHQWIQETRTYLLDGSCMVEESGT  
 LESQLEATKRKHQEIRAMRSQKIKIEDLGAAMEEALILDNKYTEHSTVGLAQQWDQLDQLGMRMQHNL  
 EQ  
 QIQARNTTGVTEEALKEFSMMFKHFDKDKSGRLNHQEFKSLRSLGYDLPVVEEGEPDPEFEAILDVTDP  
 NRDGHVSLQEYMAFMISRETENVKSSEEIESAFRALSSEGKPYVTKEELYQNLTREQADYCVSHMKPYVD  
 GKGRELPTAFDYVEFTRSLFVN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	284.4 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_003118</a>
<b>Locus ID:</b>	6709
<b>UniProt ID:</b>	<a href="#">Q13813</a>
<b>RefSeq Size:</b>	7892
<b>Cytogenetics:</b>	9q34.11

RefSeq ORF: 7416

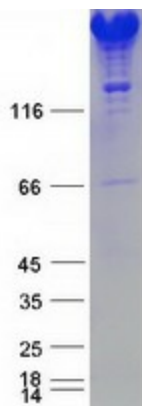
Synonyms: DEE5; EIEE5; NEAS; SPTA2

**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]).