

Recombinant Human SPTBN1, His-tagged

Cat. No. SPTBN1-30885TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 280-692 of Human SPTBN1 with an N terminal His tag; Predicted MWt 49 kDa.
Species	Human
Source	E.coli
ProteinLength	280-692 a.a.
Description	Spectrin is an actin crosslinking and molecular scaffold protein that links the plasma membrane to the actin cytoskeleton, and functions in the determination of cell shape, arrangement of transmembrane proteins, and organization of organelles. It is composed of two antiparallel dimers of alpha- and beta- subunits. This gene is one member of a family of beta-spectrin genes. The encoded protein contains an N-terminal actin-binding domain, and 17 spectrin repeats which are involved in dimer formation. Multiple transcript variants encoding different isoforms have been found for this gene.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 24 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MKALAVEGKRIGKVLDNAIETEKMIKEYESLASDLEWIE QTIILNNRKFANSLVGVQ QQLQAFNTYRTVEKPPKFT EKGNEVLLFTIQSKMRANNQKVYMPREGKLISDINKA WERLEKAEHERELALRNELIRQEKLEQLARRFDRKAAM RETWLSNQRLVSQDNF GFDLPAVEAATKKHEAIETDIAA YEERVQAVVAVARELEAENYHDIKRITARKDNVIR LWE YLLELLRARRQRLEMNLGLQKIFQEMLYIMDWMDMKV LVLSQDYGKHLLGV EDLLQKHTLV EADIGIQAERVGRV NASAQKFATDGEGYKPCDPQVIRDRVAHMEFC YQELCQ LAAERRARLEESRRLWKFFWEMAE EEGWIREKEKILSSDD YGKDLTSVM RLLSKHRAFEDMSGRSG

GENE INFORMATION

Gene Name	SPTBN1 spectrin, beta, non-erythrocytic 1 [Homo sapiens]
Official Symbol	SPTBN1
Synonyms	SPTBN1; spectrin, beta, non-erythrocytic 1; spectrin beta chain, brain 1;
Gene ID	6711
mRNA Refseq	NM_178313
Protein Refseq	NP_842565
MIM	182790
Uniprot ID	Q01082
Chromosome Location	2p21

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Pathway	Axon guidance, organism-specific biosystem; Axon guidance, organism-specific biosystem; Cell-Cell communication, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Developmental Biology, organism-specific biosystem;
Function	actin binding; calmodulin binding; protein binding; structural constituent of cytoskeleton;

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