

Recombinant Human SPTBN2, His-tagged

Cat. No. SPTBN2-30886TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 2149-2390 of Human SPTBN2 with an N terminal His tag; Predicted MWt 27 kDa.
Species	Human
Source	E.coli
ProteinLength	2149-2390 a.a.
Description	Spectrins are principle components of a cells membrane-cytoskeleton and are composed of two alpha and two beta spectrin subunits. The protein encoded by this gene (SPTBN2), is called spectrin beta non-erythrocytic 2 or beta-III spectrin. It is related to, but distinct from, the beta-II spectrin gene which is also known as spectrin beta non-erythrocytic 1 (SPTBN1). SPTBN2 regulates the glutamate signaling pathway by stabilizing the glutamate transporter EAAT4 at the surface of the plasma membrane. Mutations in this gene cause a form of spinocerebellar ataxia, SCA5, that is characterized by neurodegeneration, progressive locomotor incoordination, dysarthria, and uncoordinated eye movements.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 143 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	SQPLLGGQRLEHSSFPEGPGPGSGDEANGPRGERQTRTRG PAPSAMPQSRSTES AHAATLPPRGPEPSAQEQMEGMLC RKQEMEAFGKKAANRSWQNVYCVLRRGSL GFYKDAKAA SAGVPYHGEVPVSLARAQGSVAFDYRKRKHVFKLGLQD GKEYLFQA KDEAEMSSWLRVVNAAIATASSASGEPEEPVV PSTTRGMTRAMTMPPVSPVGAEG PVVLRSKDGRERERE KRFSFFKKNK
GENE INFORMATION	
Gene Name	SPTBN2 spectrin, beta, non-erythrocytic 2 [Homo sapiens]
Official Symbol	SPTBN2
Synonyms	SPTBN2; spectrin, beta, non-erythrocytic 2; SCA5, spinocerebellar ataxia 5; spectrin beta chain, brain 2;
Gene ID	6712
mRNA Refseq	NM_006946
Protein Refseq	NP_008877
MIM	604985
Uniprot ID	O15020
Chromosome Location	11q13.2
Pathway	Axon guidance, organism-specific biosystem; Axon guidance, organism-specific

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biosystem; Developmental Biology, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Interaction between L1 and Ankyrins, organism-specific biosystem;

Function

actin binding; structural constituent of cytoskeleton;

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