Recombinant Human SPTAN1, MYC/DDK-tagged

Cat. No. SPTAN1-479H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human SPTAN1, transcript variant 1, fussed with MYC/DDK tag at C-terminal was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	284.9 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

GENE INFORMATION

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Gene Name	SPTAN1 spectrin, alpha, non-erythrocytic 1 [Homo sapiens]
Official Symbol	SPTAN1
Synonyms	NEAS; EIEE5; SPTA2; spectrin alpha chain, non-erythrocytic 1; alpha-II spectrin; alpha-fodrin; fodrin alpha chain; spectrin, non-erythroid alpha chain; spectrin, non-erythroid alpha subunit
Gene ID	6709
mRNA Refseq	NM_001130438
Protein Refseq	NP_001123910
MIM	182810
UniProt ID	Q13813
Chromosome Location	9q34.11
Pathway	Apoptosis, organism-specific biosystem; Apoptotic cleavage of cellular proteins, organism-specific biosystem; Axon guidance, organism-specific biosystem
Function	actin binding; calcium ion binding; protein binding

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