

## Recombinant Human SPTAN1, His-tagged

**Cat. No.** SPTAN1-32H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human SPTAN1 (Glu922~Ala1043) fused with His tag at N-terminal was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 922-1043 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | <p>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.</p> |
| <b>Molecular Mass</b>   | 15.1kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>           | > 95%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Applications</b>     | SDS-PAGE, Western Blot, ELISA, Immunoprecipitation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Usage</b>            | For Research Use Only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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|                |                                                                                                                                                                                 |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b> | Can be stored at 4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles. |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## GENE INFORMATION

|                            |                                                                                                                                                                                                |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | SPTAN1 spectrin, alpha, non-erythrocytic 1 [ Homo sapiens ]                                                                                                                                    |
| <b>Official Symbol</b>     | SPTAN1                                                                                                                                                                                         |
| <b>Synonyms</b>            | 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  |
| <b>Gene ID</b>             | 670                                                                                                                                                                                            |
| <b>mRNA Refseq</b>         | NM_001130438                                                                                                                                                                                   |
| <b>Protein Refseq</b>      | NP_001123910                                                                                                                                                                                   |
| <b>MIM</b>                 | 182810                                                                                                                                                                                         |
| <b>UniProt ID</b>          | Q13813                                                                                                                                                                                         |
| <b>Chromosome Location</b> | 9q34.11                                                                                                                                                                                        |
| <b>Pathway</b>             | Caspase cascade in apoptosis, organism-specific biosystem; Caspase-mediated cleavage of cytoskeletal proteins, organism-specific biosystem; Developmental Biology, organism-specific biosystem |

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**Function**

protein binding; protein heterodimerization activity; spectrin binding

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