

## Recombinant Mouse Sptan1, His-tagged

**Cat. No.** Sptan1-35M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Mouse Sptan1 (Arg1605~His1806) fused with His tag at N-terminal was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | 1605-1806 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | The spectrins are a family of widely distributed cytoskeletal proteins which are involved in actin crosslinking. The protein encoded by this gene is a spectrin alpha-chain which heterodimerizes with tissue-specific beta-chains. It 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. |
| <b>Molecular Mass</b>   | 24.5kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purity</b>           | > 95%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Applications</b>     | SDS-PAGE, Western Blot, ELISA, Immunoprecipitation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Usage</b>            | For Research Use Only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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**Storage**

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**
**Gene Name**

Sptan1 spectrin alpha, non-erythrocytic 1 [ *Mus musculus* ]

**Official Symbol**

Sptan1

**Synonyms**

Spna2; Spna-2; 2610027H02Rik; spectrin alpha chain, non-erythrocytic 1; alpha-II spectrin; alpha-fodrin; alpha-spectrin 2, brain; fodrin alpha chain; spectrin alpha 2; spectrin alpha chain, brain; spectrin, non-erythroid alpha chain

**Gene ID**

20740

**mRNA Refseq**

NM\_001076554

**Protein Refseq**

NP\_001070022

**Chromosome Location**

2 B; 2 20.93 Cm

**Pathway**

Apoptosis, organism-specific biosystem; Apoptotic cleavage of cellular proteins, organism-specific biosystem; Axon guidance, organism-specific biosystem

**Function**

actin binding; calcium ion binding; calmodulin binding

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