

血影蛋白 A 链非红细胞型收缩蛋白 Spectrin α 抗体

产品货号： mlR0381

英文名称： Spectrin alpha chain, non-erythrocytic 1

中文名称： 血影蛋白 A 链非红细胞型/收缩蛋白/Spectrin α 抗体

别名： alpha-II spectrin; SPTN1_HUMAN; Alpha Fodrin; Spectrin-Alpha; SPEC; Spectrin, alpha, non-erythrocytic 1 variant; Spectrin alpha chain, non-erythrocytic 1; Alpha-II spectrin; Fodrin alpha chain; Spectrin, non-erythroid alpha subunit; SPTAN1; SPTA2; spectrin, non-erythroid alpha chain; alpha-fodrin; spectrin, non-erythroid alpha subunit; spectrin alpha chain, non-erythrocytic 1; EIEE5; NEAS; Spectrin α II; Spectrin α -II; Spectrin α II; Spectrin- α II.

研究领域： 心血管 细胞生物

抗体来源： Rabbit

克隆类型： Polyclonal

交叉反应： Human, Mouse, Rat, Dog, Cow,

产品应用： ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 ICC=1:100-500 IF=1:100-500 (石蜡切片需做抗原修复)

not yet tested in other applications.

optimal dilutions/concentrations should be determined by the end user.

分子量： 272kDa

细胞定位： 细胞浆 细胞膜

性状： Lyophilized or Liquid

浓 度 : 1mg/ml

免 疫 原 : KLH conjugated synthetic peptide derived from human Spectrin alpha chain, non-erythrocytic 1:30-110/2472

亚 型 : IgG

纯化方法 : affinity purified by Protein A

储 存 液 : 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.

保存条件 : Store at -20 ° C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20° C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 ° C.

PubMed : PubMed

产品介绍 : 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.[provided by RefSeq, Sep 2010]

Function:

Fodrin, which seems to be involved in secretion, interacts with calmodulin in a calcium-dependent manner and is thus candidate for the calcium-dependent movement of the cytoskeleton at the membrane.

Subunit:

Like erythrocyte spectrin, the spectrin-like proteins are capable of forming dimers which can further associate to tetramers. Interacts with isoform 1 of ACP1. Interacts with CALM and EMD. Interacts (via C-terminal spectrin repeats) with TRPC4. Identified in a complex with ACTN4, CASK, IQGAP1, MAGI2, NPHS1 and SPTBN1.

Subcellular Location:

Cytoplasm, cytoskeleton. Cytoplasm, cell cortex. Note=Expressed along the cell membrane in podocytes and presumptive tubule cells during glomerulogenesis and is expressed along lateral cell margins in tubule cells.

Post-translational modifications:

Phosphorylation of Tyr-1176 decreases sensitivity to cleavage by calpain in vitro.

DISEASE:

Defects in SPTAN1 are the cause of epileptic encephalopathy early infantile type 5 (EIEE5) [MIM:613477]. EIEE5 is a disorder characterized by seizures associated with hypsarrhythmia profound mental retardation with lack of visual attention and speech development, as well as spastic quadriplegia.

Similarity:

Belongs to the spectrin family.

Contains 3 EF-hand domains.

Contains 1 SH3 domain.

Contains 23 spectrin repeats.

SWISS:

Q13813



Gene ID:

6709

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.