# a-包衬蛋白抗体

**产品货号：** mlR2675

**英文名称：** SPECA

**中文名称：** a-包衬蛋白抗体

**别　　名：** Fodrin alpha chain; (ALPHA)II-SPECTRIN; Alpha II Spectrin; FLJ44613; Fodrin, alpha; NEAS; Non erythrocytic spectrin alpha; SPECA; Spectrin alpha chain; Spectrin alpha chain brain; Spectrin alpha non erythrocytic 1; Spectrin non erythroid alpha chain; Spectrin, alpha, non-erythrocytic 1 (alpha-fodrin); Spectrin, nonerythroid, alpha subunit; Spna2; SPTA 2; SPTA2; SPTAN 1; SPTAN1; SPTA1_HUMAN.

**抗体来源：** Rabbit

**克隆类型：** Polyclonal

**交叉反应：** Human, Mouse, Rat, Chicken, Dog, Pig, Cow, Horse, Rabbit,

**产品应用：** ELISA=1:500-1000 IHC-P=1:400-800 IHC-F=1:400-800 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：** 284kDa

**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 SPECA:551-650/2472

**亚　　型：** IgG

mlbio 酶联生物
Good elisakit producers

**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：** a-Fodrin is a universally expressed membrane associated cytoskeletal protein consisting of alpha and beta subunits. The protein is important for maintaining normal membrane structure and supporting cell surface protein function. Alpha Fodrin is one of the important targets cleaved by caspases during apoptosis. The full length 240 kDa protein can be cleaved at several sites within its sequence by activated caspases generating N terminal 150 kDa, C terminal 120 kDa, and 35 kDa major products. Cleavage of alpha Fodrin leads to membrane malfunction and cell shrinkage.

**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.