10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SPECA Recombinant Rabbit mAb

Catalog # AP100013

Product Information

Application	WB, IHC-P, IHC-F, IF, IP
Primary Accession	Q13813
Other Accession	Q13813
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	284539
Physical State	Liquid
Immunogen	A synthesized peptide derived from human SPTAN1
Epitope Specificity	50-105/2472
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	10mM phosphate buffered saline(pH 7.4) with 150mM sodium chloride, 0.05% BSA, 0.02% Proclin300 and 50% glycerol.
SIMILARITY	Belongs to the spectrin family.Contains 3 EF-hand domains.Contains 1 SH3 domain.Contains 23 spectrin repeats.
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.
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.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	6709
Other Names	SPTN1_HUMAN; SPTAN1; Alpha-II spectrin; Fodrin alpha chain; Spectrin, non-erythroid alpha subunit; NEAS; SPTA2; DEE5; DEVEP; EIEE5; HMN11; HMND11; SPG91; spectrin alpha, non-erythrocytic 1; alpha-fodrin
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IP=1:20-50,IF=1:100-500

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	SPTAN1
Synonyms	NEAS, SPTA2
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.
Cellular 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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.