
Product Name: Cleaved-Spectrin α II (D1185) Rabbit Polyclonal Antibody**Catalog #: APRab09029**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Rat,Mouse
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,ELISA 1:5000-1:20000
Molecular Weight	137kDa

Antigen Information

Gene Name	SPTAN1
Alternative Names	SPTAN1; NEAS; SPTA2; Spectrin alpha chain; non-erythrocytic 1; Alpha-II spectrin; Fodrin alpha chain; Spectrin, non-erythroid alpha subunit
Gene ID	6709.0
SwissProt ID	Q13813
Immunogen	The antiserum was produced against synthesized peptide derived from human SPTA2. AA range:1136-1185

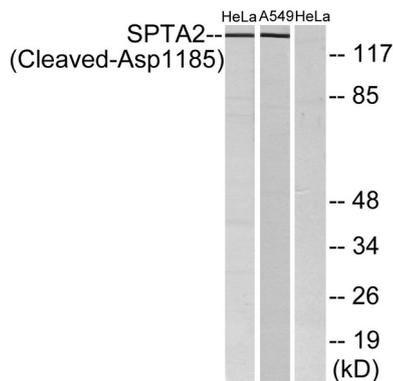
Background

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.,PTM:Phosphorylation of Tyr-1176 decreases sensitivity to cleavage by calpain in vitro.,similarity:Belongs to the spectrin family.,similarity:Contains 1 SH3 domain.,similarity:Contains 23 spectrin repeats.,similarity:Contains 3 EF-hand domains.,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.,

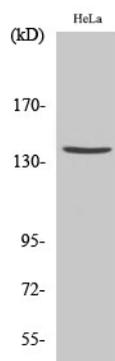
Research Area

Tight junction;

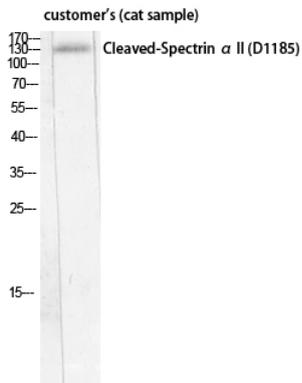
Image Data



Western blot analysis of lysates from HeLa and A549 cells, treated with etoposide 25uM 24H, using SPTA2 (Cleaved-Asp1185) Antibody. The lane on the right is blocked with the synthesized peptide.



Western Blot analysis of various cells using Cleaved-Spectrin α II (D1185) Polyclonal Antibody diluted at 1: 500



Western Blot analysis of customer 's (cat sample) using Cleaved-Spectrin α II (D1185) Polyclonal Antibody diluted at 1: 500