

Rabbit anti-Human SPTBN1 Polyclonal Antibody | anti-SPTBN1 antibody

SPTBN1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327462	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

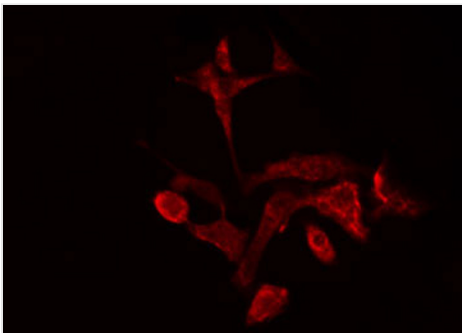
PRODUCT SYNONYMS

SPTBN1; Polyclonal Antibody; SPTBN1 Antibody; Beta G spectrin; Beta II spectrin; Beta spectrin 2; Beta spectrin II; Beta-II spectrin; betaSpII; brain 1; ELF; Embryonic liver beta fodrin; Fodrin beta chain; non-erythroid beta chain 1; Spectrin; Spectrin beta chain; beta; non erythrocytic 1; non erythroid beta chain 1; SPTB2; SPTB2_HUMAN; anti-SPTBN1 antibody

PRODUCT SPECIFICATIONS

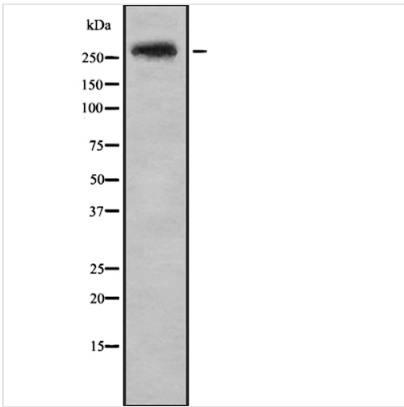
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	SPTBN1 antibody detects endogenous levels of total SPTBN1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	2364
Applicable Applications for anti-SPTBN1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human SPTBN1
Subcellular Location	Cell Membrane and Cytoplasm > Cytoskeleton. Cytoplasm > Myofibril > Sarcomere > M line. Colocalizes with ANK2 in a distinct intracellular compartment of neonatal cardiomyocytes.
Tissue Specificity	Isoform 2 is present in brain, lung and kidney (at protein level).
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA327462 staining COLO205 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis SPTBN1 using HeLa whole cell lysates

ADDITIONAL INFORMATION

Related Product Information for anti-SPTBN1 antibody

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 Structure: Interacts with CAMSAP1 (PubMed:24117850). Interacts with ANK2 (PubMed:15262991). Interacts with CPNE4 (via VWFA domain) (By similarity). Like erythrocyte spectrin, the spectrin-like proteins are capable to form dimers which can further associate to tetramers (By similarity). Isoform Short cannot bind to the axonal protein fodaxin.
Similarity: Belongs to the spectrin family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	112382250
NCBI GeneID	6711
NCBI Accession #	NP_003119.2
NCBI GenBank Nucleotide #	NM_003128.2
UniProt Accession #	Q01082; O60837; Q16057; Q53R99; Q59ER3; Q8IX99; B2RP63
Molecular Weight	Observed: 275 kDa Predicted: 275 kDa
NCBI Official Full Name	spectrin beta chain, non-erythrocytic 1 isoform 1
NCBI Official Synonym Full Names	spectrin beta, non-erythrocytic 1
NCBI Official Symbol	SPTBN1
NCBI Official Synonym Symbols	ELF; SPTB2; HEL102; betaSpII
NCBI Protein Information	spectrin beta chain, non-erythrocytic 1
UniProt Protein Name	Spectrin beta chain, non-erythrocytic 1
UniProt Gene Name	SPTBN1
UniProt Synonym Gene Names	SPTB2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.