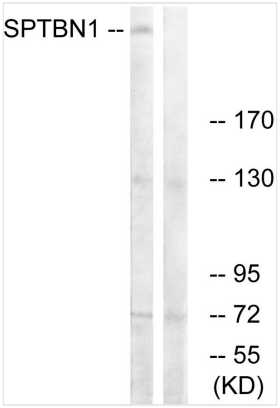
SPTBN1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SPTBN1, Polyclonal Antibody
Full Product Name	SPTBN1 Antibody
Product Gene Name	anti-SPTBN1 antibody
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Purified from rabbit antiserum by affinity-chromatography using immunogen.
Concentration	1 mg/ml (lot specific)
Specificity	SPTBN1 Antibody detects endogenous levels of total SPTBN1 protein.
Preparation and Storage	Stable at -20 degree C for at least 1 year.
Molecular Weight	274 kDa
OMIM	M96803 mRNA
3D Structure	ModBase 3D Structure for Q01082
Target Modification	Unmodified/Total
Immunogen	The antiserum was produced against synthesized peptide derived from human SPTBN1.
Immunogen Range	651-700
Applications Tested/Suitable for anti-SPTBN1 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-SPTBN1 antibody	WB: 1:500~1:1000 ELISA: 1:10000
Related Product Information for anti-SPTBN1 antibody	MBS9506983 is an antibody targeting SPTBN1. Also known as SPTBN1 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-SPTBN1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-SPTBN1 antibody
Western blot analysis of lysates from COLO cells, using SPTBN1 Antibody. The lane on the right is blocked with the synthesized peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SPTBN1. It may not necessarily be applicable to this product.

NCBI GI #	112382250
NCBI GeneID	6711
NCBI Accession #	NP_003119.2
UniProt Primary Accession #	Q01082
UniProt Secondary Accession #	O60837; Q16057; Q53R99; Q59ER3; Q8IX99; B2RP63
UniProt Related Accession #	Q01082
GenBank Nucleotide #	NM_003128.2
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
UniProt Protein Name	Spectrin beta chain, non-erythrocytic 1
UniProt Synonym Protein Names	Beta-II spectrin; Fodrin beta chain; Spectrin, non-erythroid beta chain 1
Protein Family	Spectrin
UniProt Gene Name	SPTBN1
UniProt Synonym Gene Names	SPTB2
NCBI Protein Information	spectrin beta chain, non-erythrocytic 1
NCBI Summary for SPTBN1	Spectrin is an actin crosslinking and molecular scaffold protein that links the plasma membrane to the actin cytoskeleton, and functions in the determination of cell shape, arrangement of transmembrane proteins, and organization of organelles. It is composed of two antiparallel dimers of alpha- and beta- subunits. This gene is one member of a family of beta-spectrin genes. The encoded protein contains an N-terminal actin-binding domain, and 17 spectrin repeats which are involved in dimer formation. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for SPTBN1	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.

Research Articles on SPTBN1	**1.** c-Met overexpression, HER-2 gene amplification, and SPTBN1-ALK gene fusion can coexist in lung adenocarcinoma and may become a potential biomarker of cancer refractory to crizotinib, chemotherapy, and radiotherapy as well as of a relatively poor prognosis.
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