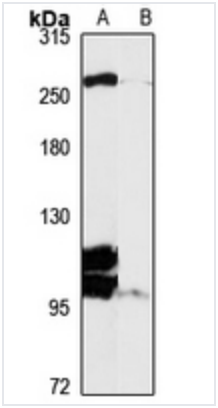
Spectrin Beta (SPTB) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Spectrin beta (SPTB), Polyclonal Antibody
Full Product Name	Anti-Spectrin beta Antibody
Product Gene Name	anti-SPTB antibody
Product Synonym Names	SPTB1; Spectrin beta chain erythrocytic; Beta-I spectrin
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in 0.42% Potassium Phosphate, 0.87% Sodium Chloride, pH 7.3, 30% Glycerol, and 0.01% Sodium Azide.
Purity/Purification	Purified by Immunogen Affinity Chromatography
Specificity	Recognizes endogenous levels of Spectrin beta protein.
Preparation and Storage	Upon delivery aliquot and store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	246,468 Da
OMIM	130600
3D Structure	ModBase 3D Structure for P11277
Immunogen	Recombinant fusion protein of human Spectrin beta. The exact sequence is proprietary.
Applications Tested/Suitable for anti-SPTB antibody	Western Blot (WB)
Application Notes for anti-SPTB antibody	WB: 1:500-1:2000
Related Product Information for anti-SPTB antibody	MBS8308245 is an antibody targeting SPTB. Also known as Anti-Spectrin beta Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit. Rabbit polyclonal antibody to Spectrin beta
Other Notes	Small volumes of anti-SPTB 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-SPTB antibody
Western blot analysis of Spectrin beta expression in K562 (A), mouse brain (B) whole cell lysates.

ADDITIONAL DETAILS

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

NCBI GI #	67782321
NCBI GeneID	6710
NCBI Accession #	NP_001020029.1
UniProt Primary Accession #	P11277
UniProt Secondary Accession #	P15508
UniProt Related Accession #	P11277
GenBank Nucleotide #	NM_001024858.2
NCBI Official Full Name	spectrin beta chain, erythrocytic isoform a
NCBI Official Synonym Full Names	spectrin, beta, erythrocytic
NCBI Official Symbol	SPTB
NCBI Official Synonym Symbols	EL3; HS2; SPH2; HSPTB1
UniProt Protein Name	Spectrin beta chain, erythrocytic
UniProt Synonym Protein Names	Beta-I spectrin
Protein Family	Spectrin
UniProt Gene Name	SPTB
UniProt Synonym Gene Names	SPTB1
UniProt Entry Name	SPTB1_HUMAN
NCBI Protein Information	spectrin beta chain, erythrocytic; beta-I spectrin; membrane cytoskeletal protein; spectrin beta chain, erythrocyte
NCBI Summary for SPTB	This locus encodes a member of the spectrin gene family. Spectrin proteins, along with ankyrin, play a role in cell membrane organization and stability. The protein encoded by this locus functions in stability of erythrocyte membranes, and mutations in this gene have been associated with spherocytosis type 2, hereditary elliptocytosis, and neonatal hemolytic anemia. Alternatively spliced transcript variants have been described. [provided by RefSeq, Nov 2009]

UniProt Comments for SPTB	SPTB1: Spectrin is the major constituent of the cytoskeletal network underlying the erythrocyte plasma membrane. It associates with band 4.1 and actin to form the cytoskeletal superstructure of the erythrocyte plasma membrane. Defects in SPTB are the cause of elliptocytosis type 3 (EL3). EL3 is a Rhesus-unlinked form of hereditary elliptocytosis, a genetically heterogeneous, autosomal dominant hematologic disorder. It is characterized by variable hemolytic anemia and elliptical or oval red cell shape. Defects in SPTB are the cause of spherocytosis type 2 (SPH2); also known as hereditary spherocytosis type 2 (HS2). Spherocytosis is a hematologic disorder leading to chronic hemolytic anemia and characterized by numerous abnormally shaped erythrocytes which are generally spheroidal. SPH2 is characterized by severe hemolytic anemia. Inheritance is autosomal dominant. Belongs to the spectrin family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Cytoskeletal; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 14q23-q24.2 Cellular Component: spectrin; protein complex; cell surface; cytoplasm; cytosol; actin cytoskeleton Molecular Function: actin filament binding; protein binding; structural constituent of cytoskeleton; protein heterodimerization activity; ankyrin binding; actin binding Biological Process: axon guidance; plasma membrane organization and biogenesis; actin filament capping; hemopoiesis; porphyrin biosynthetic process Disease: Spherocytosis, Type 2, Included
Research Articles on SPTB	**1.** analysis of glycosylation of erythrocyte spectrin and its modification in visceral leishmaniasis
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