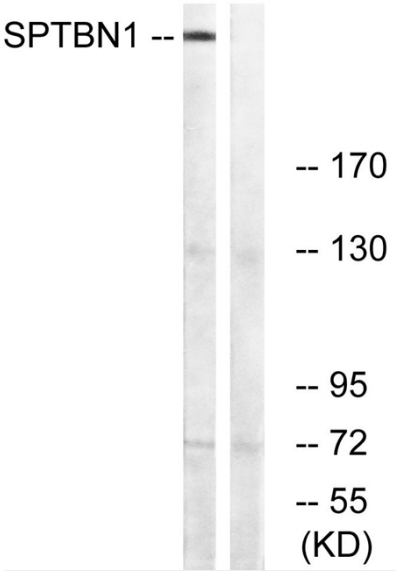
Spectrin β II Polyclonal Antibody

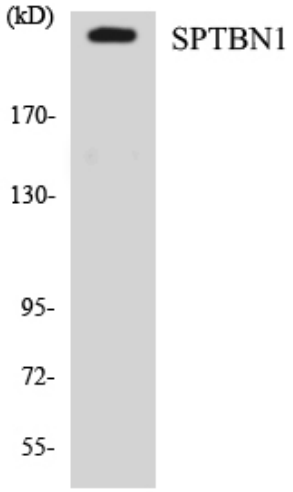
Catalog No	YP-Ab-03187
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	SPTBN1
Protein Name	Spectrin beta chain non-erythrocytic 1
Immunogen	The antiserum was produced against synthesized peptide derived from human SPTBN1. AA range:651-700
Specificity	Spectrin β II Polyclonal Antibody detects endogenous levels of Spectrin β II protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/10000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	SPTBN1; SPTB2; Spectrin beta chain; non-erythrocytic 1; Beta-II spectrin; Fodrin beta chain; Spectrin, non-erythroid beta chain 1
Observed Band	275kD
Cell Pathway	Cytoplasm, cytoskeleton . Cytoplasm, myofibril, sarcomere, M line . Colocalizes with ANK2 in a distinct intracellular compartment of neonatal cardiomyocytes. .; [Isoform 2]: Cell membrane ; Peripheral membrane protein ; Cytoplasmic side .
Tissue Specificity	Isoform 2 is present in brain, lung and kidney (at protein level).
Function	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:Isoform 2 is phosphorylated on Ser-8 and Ser-10.,similarity:Belongs to the spectrin family.,similarity:Contains 1 PH domain.,similarity:Contains 17 spectrin repeats.,similarity:Contains 2 CH (calponin-homology) domains.,subcellular location:Colocalizes with ANK2 in a distinct intracellular compartment of neonatal cardiomyocytes.,subunit:Like erythrocyte spectrin, the spectrin-like proteins are capable to form dimers which can further associate to tetramers. The short form cannot bind to the axonal protein fodaxin. Interacts with ANK2.,tissue specificity:Isoform 2 is present in brain, lung and kidney (at protein level).,

Background	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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

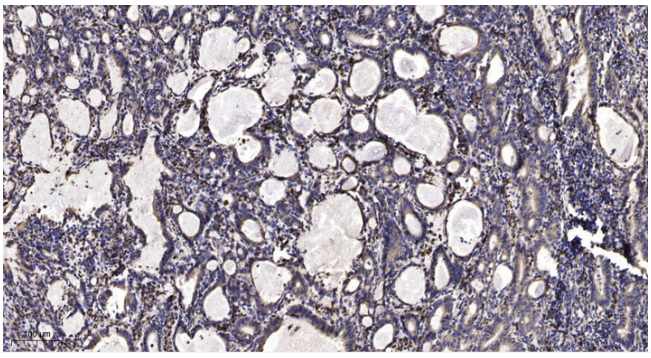
Products Images



Western blot analysis of lysates from COLO cells, using SPTBN1 Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from Jurkat cells using SPTBN1 antibody.



Immunohistochemical analysis of paraffin-embedded human Gastric adenocarcinoma. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).