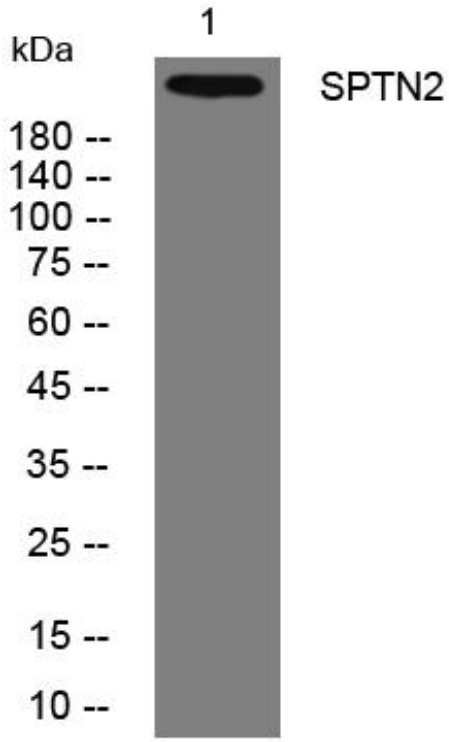
SPTN2 mouse mAb

Catalog No	BYmab-11903
Isotype	IgG
Reactivity	Human;Rat
Applications	WB
Gene Name	SPTBN2 KIAA0302 SCA5
Protein Name	SPTN2
Immunogen	Synthesized peptide derived from human SPTN2 AA range: 644-694
Specificity	This antibody detects endogenous levels of SPTN2 at Human/Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	
Observed Band	
Cell Pathway	Cytoplasm, cytoskeleton. Cytoplasm, cell cortex.
Tissue Specificity	Highly expressed in brain, kidney, pancreas, and liver, and at lower levels in lung and placenta.
Function	disease:Defects in SPTBN2 are the cause of spinocerebellar ataxia type 5 (SCA5) [MIM:600224]. Spinocerebellar ataxia is a clinically and genetically heterogeneous group of cerebellar disorders. Patients show progressive incoordination of gait and often poor coordination of hands, speech and eye movements, due to degeneration of the cerebellum with variable involvement of the brainstem and spinal cord. SCA5 is an autosomal dominant cerebellar ataxia (ADCA). It is a slowly progressive disorder with variable age at onset, ranging between 10 and 50 years.,function:Probably plays an important role in neuronal membrane skeleton.,similarity:Belongs to the spectrin family.,similarity:Contains 1 PH domain.,similarity:Contains 17 spectrin repeats.,similarity:Contains 2 CH (calponin-homology) domains.,tissue specificity:Highly expressed in brain, kidney, pancreas, and liver, and at lower levels in

Background	Spectrins are principle components of a cell's membrane-cytoskeleton and are composed of two alpha and two beta spectrin subunits. The protein encoded by this gene (SPTBN2), is called spectrin beta non-erythrocytic 2 or beta-III spectrin. It is related to, but distinct from, the beta-II spectrin gene which is also known as spectrin beta non-erythrocytic 1 (SPTBN1). SPTBN2 regulates the glutamate signaling pathway by stabilizing the glutamate transporter EAAT4 at the surface of the plasma membrane. Mutations in this gene cause a form of spinocerebellar ataxia, SCA5, that is characterized by neurodegeneration, progressive locomotor incoordination, dysarthria, and uncoordinated eye movements. [provided by RefSeq, Dec 2009],
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 various cells using SPTN2 mouse mAb