

Datasheet for ABIN6938445

## **anti-Spectrin, Beta, Non-erythrocytic 2 (SPTBN2) (AA 356-475) antibody**



[Go to Product page](#)

### Overview

Quantity:	100 µg
Target:	Spectrin, Beta, Non-erythrocytic 2 (SPTBN2)
Binding Specificity:	AA 356-475
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	Un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunofluorescence (IF), Immunohistochemistry (Formalin-fixed Sections) (IHC (f))

### Product Details

Immunogen:	Recombinant fragment (around aa356-475) of human SPTBN2 protein (exact sequence is proprietary)
Clone:	SPTBN2-1583
Isotype:	IgG2b kappa
Specificity:	Spectrin is an actin binding protein that is a major component of the plasma membrane skeleton. Spectrins function as membrane organizers and stabilizers by forming dimers, tetramers and higher polymers. Vertebrate spectrins have two alpha-subunits (alpha-I/alpha-II) four beta-subunits (beta-I-beta-IV) and a beta-H subunit creating diversity and specialization of function. Spectrin and spectrin are present in erythrocytes, whereas spectrin II (also designated fodrin ) and spectrin I (also designated fodrin ) are present in other somatic cells. The spectrin

## Product Details

tetramers in erythrocytes act as barriers to lateral diffusion, but spectrin dimers seem to lack this function. Spectrin III is highly homologous to both spectrin I and spectrin II. Spectrin III is highly expressed in brain, kidney, pancreas and liver, and at lower levels in lung and placenta. Spectrin beta 3 is primarily expressed in nervous tissues with highest expression levels in the cerebellum, where it is found in Purkinje cell soma and dendrites.

Cross-Reactivity (Details):	Human.
Purification:	1.0mg/ml of Ab purified from Bioreactor by Protein A/G.

## Target Details

Target:	Spectrin, Beta, Non-erythrocytic 2 (SPTBN2)
Alternative Name:	SPTBN2 ( <a href="#">SPTBN2 Products</a> )
Background:	Beta III spectrin, SCA5, Spectrin beta chain brain 2, Spectrin beta non-erythrocytic 2, Spectrin non-erythroid beta chain 2, Spinocerebellar ataxia 5, SPTBN2,Spectrin beta III (SPTBN2) Cellular localisation: Cell Surface
Molecular Weight:	246kDa
Gene ID:	6712, 26915
UniProt:	<a href="#">O15020</a>
Pathways:	<a href="#">Regulation of Actin Filament Polymerization</a> , <a href="#">Synaptic Vesicle Exocytosis</a>

## Application Details

Application Notes:	Known_Application: Flow Cytometry (1-2 µg/million cells), (Immunofluorescence (1-2 µg/mL), Western Blot (1-2 µg/mL),Immunohistochemistry (Formalin-fixed) (1-2 µg/mL for 30 minutes at RT) ,(Staining of formalin-fixed tissues requires heating tissue sections in 10 mM Tris with 1 mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes), Optimal dilution for a specific application should be determined. Positive_Control: PANC-1, HeLa cells. Pancreas or Liver.
Restrictions:	For Research Use only

## Handling

Concentration:	1.0 mg/mL
Buffer:	Prepared in 10 mM PBS, WITHOUT BSA and Azide.

## Handling

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Preservative:	Azide free
Storage:	-20 °C,-80 °C
Storage Comment:	Antibody without azide store at -20 to -80 °C. Antibody is stable for 24 months. Non-hazardous.
Expiry Date:	24 months