Datasheet for ABIN6940652

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

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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 (IHC), Staining Methods (StM)

Product Details

Immunogen:	Recombinant fragment (around aa356-475) of human SPTBN2 protein (exact sequence is proprietary)
Clone:	SPTBN2-1583
Isotype:	IgG2b kappa
Purification:	Purified by Protein A/G

Target Details

Target:	Spectrin, Beta, Non-erythrocytic 2 (SPTBN2)
Alternative Name:	SPTBN2 (SPTBN2 Products)

Target Details

Background:	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 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.
Molecular Weight:	246kDa
Gene ID:	6712
UniProt:	O15020
Pathways:	Regulation of Actin Filament Polymerization, Synaptic Vesicle Exocytosis

Application Details

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Application Notes:	Positive Control: PANC-1, HeLa cells. Pancreas or Liver. Known Application: Flow Cytometry (1-2 µg/million cells), (,Immunofluorescence (0.5-1 µg/mL), ,Western Blot (0.5-1.0 µg/mL),Immunohistochemistry (Formalin-fixed) (0.5-1.0 µg/mL for 30 minutes at RT) ,(Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes),Optimal dilution for a specific application should be determined.
Restrictions:	For Research Use only

Handling

Concentration:	200 µg/mL
Buffer:	10 mM PBS with 0.05 % BSA & 0.05 % azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-80 °C

Handling

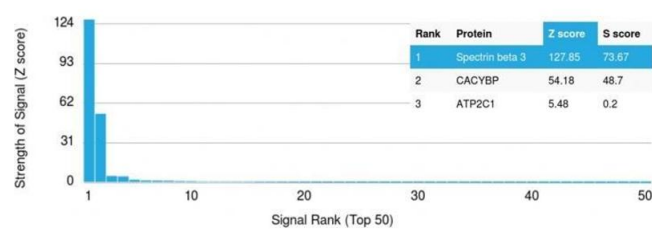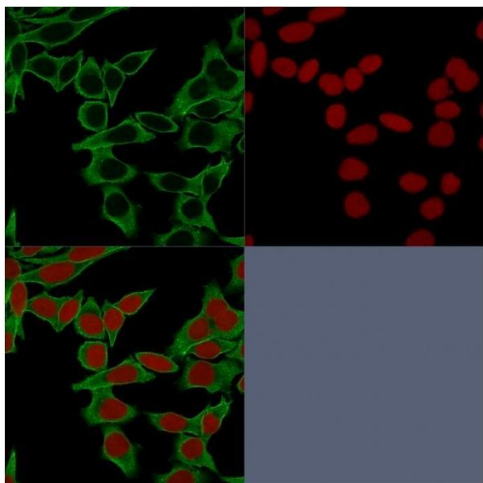|	
Storage Comment:	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.
Expiry Date:	24 months

Images
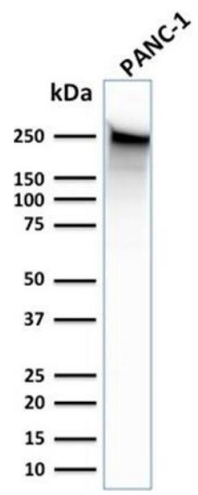
Western Blotting

Image 1. Western Blot Analysis of human PANC-1 cell lysate using Spectrin beta III Monoclonal Antibody (SPTBN2/1583).

Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using Spectrin beta III Mouse Monoclonal Antibody (SPTBN2/1583). Z- and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM array. Z-scores are described in units of standard deviations (SDs) above the mean value of all signals generated on that array. If targets on HuProtTM are arranged in descending order of the Z-score, the S-score is the difference (also in units of SDs) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

Images

Please check the product details page for more images. Overall 7 images are available for ABIN6940652.