

Datasheet for ABIN6940653

anti-Spectrin, Beta, Non-erythrocytic 2 (SPTBN2) (AA 356-475) antibody[Go to Product page](#)

9 Images

Overview

Quantity:	100 µg
Target:	Spectrin, Beta, Non-erythrocytic 2 (SPTBN2)
Binding Specificity:	AA 356-475
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
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:	SPTBN2-1584
Isotype:	IgG1 kappa
Purification:	Purified by Protein A/G

Target Details

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

Target Details

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 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

Application Notes: Positive Control: PANC-1, HeLa cells. Pancreas or Liver.
Known Application: Flow Cytometry (0.5-1 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.

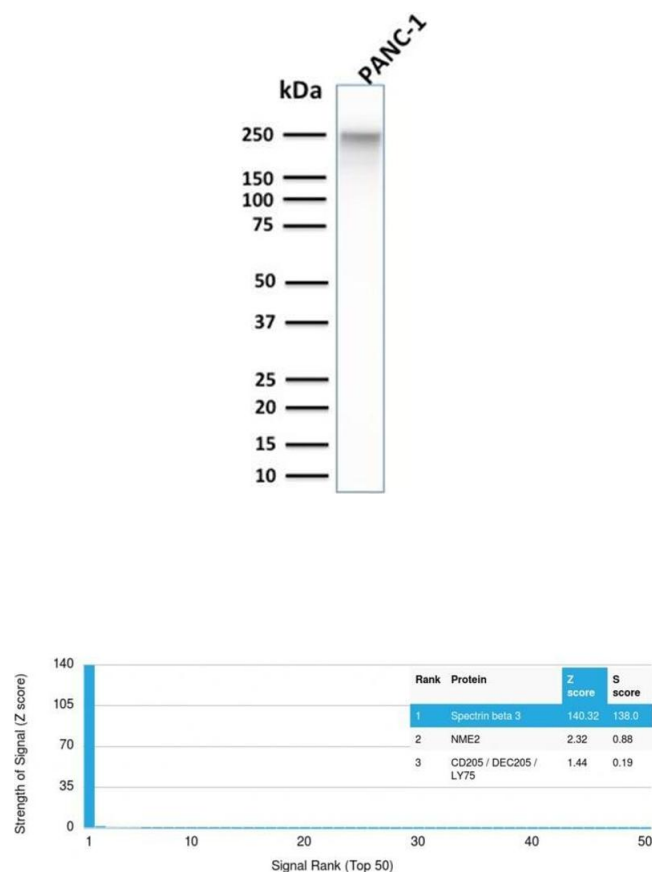
Preservative: Sodium azide

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

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

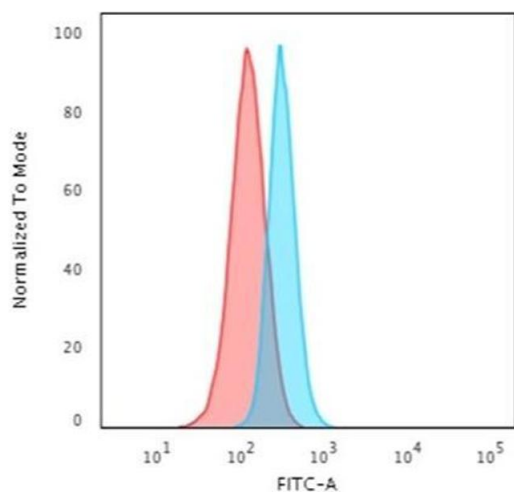


Western Blotting

Image 1. Western Blot Analysis of PANC-1 cell lysate using Spectrin beta III Monoclonal Antibody (SPTBN2/1584).

Protein Array

Image 2. Analysis of Protein Array containing more than 19,000 full-length human proteins using Spectrin beta III Mouse Monoclonal Antibody (SPTBN2/1778). 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 HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) 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.



Flow Cytometry

Image 3. Flow Cytometric Analysis of HeLa cells using Spectrin beta III Monoclonal Antibody (SPTBN2/1584) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

Please check the [product details page](#) for more images. Overall 9 images are available for ABIN6940653.