Datasheet for ABIN6940651

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

6 Images

Go to Product page

## Overview

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|---|---|
| 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), ELISA, Coating (Coat), Staining Methods (StM) |

## Product Details

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| Immunogen: | Recombinant fragment (around aa356-475) of human SPTBN2 protein (exact sequence is proprietary) |
| Clone: | SPTBN2-1582 |
| Isotype: | IgG2a kappa |
| Purification: | Purified by Protein A/G |

## Target Details

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

## Target Details

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| 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 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: HeLa cells. Pancreas or Liver.<br>Known Application: ELISA (Use Ab at 2-4 µg/mL for coating) (Order Ab without BSA), 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

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| 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. |

## Handling

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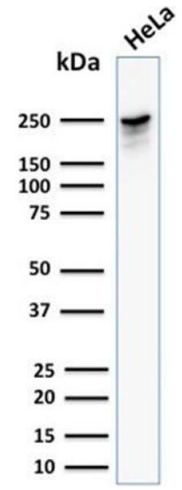
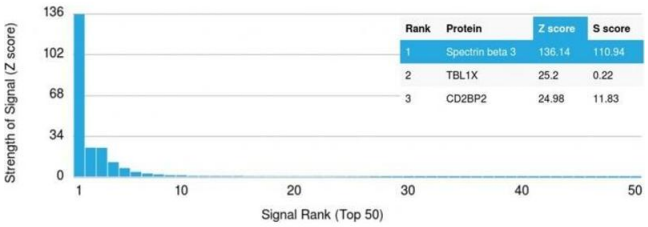
| Expiry Date: | 24 months |

## Images




### Western Blotting

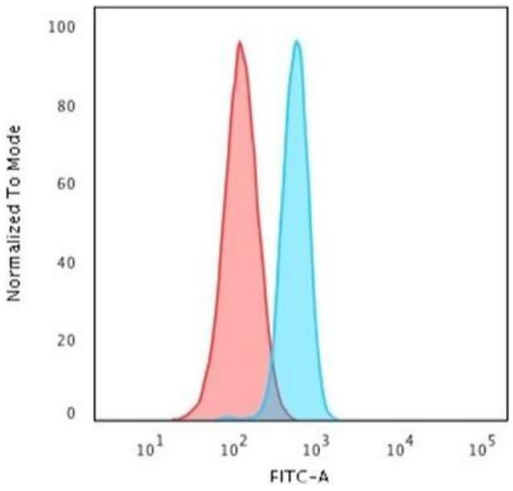
**Image 1.** Western Blot Analysis of human HeLa cell lysate using Spectrin beta III Mouse Monoclonal Antibody (SPTBN2/1582).




### Protein Array

**Image 2.** Analysis of Protein Array containing more than 19,000 full-length human proteins using Spectrin beta III Mouse Monoclonal Antibody (SPTBN2/1582). 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 (SD's) 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 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 thatMAb to protein X is equal to 29.

## Images




**Flow Cytometry**

**Image 3.** Flow Cytometric Analysis of HeLa cells using Spectrin beta III Mouse Monoclonal Antibody (SPTBN2/1582). Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

Please check the product details page for more images. Overall 6 images are available for ABIN6940651.