

36-3200: Anti-Spectrin beta III (SPTBN2) Monoclonal Antibody(Clone: SPTBN2/1582)

Clonality :	Monoclonal
Clone Name :	SPTBN2/1582
Application :	ELISA,FACS,WB,IHC
Reactivity :	Human
Gene :	SPTBN2
Gene ID :	6712
Uniprot ID :	O15020
Alternative Name :	Beta III spectrin; SCA5; Spectrin beta chain brain 2; Spectrin beta non-erythrocytic 2; Spectrin non-erythroid beta chain 2; Spinocerebellar ataxia 5; SPTBN2
Isotype :	Mouse IgG2a, kappa
Immunogen Information :	Recombinant fragment (around aa356-475) of human SPTBN2 protein (exact sequence is proprietary)

Description

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.

Product Info

Amount :	20 µg / 100 µg
Content :	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage condition :	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.

Application Note

ELISA (Use Ab at 2-4ug/ml for coating) (Order Ab without BSA); Flow Cytometry (1-2ug/million cells); (Immunofluorescence (1-2ug/ml); Western Blot (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT) (Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes);

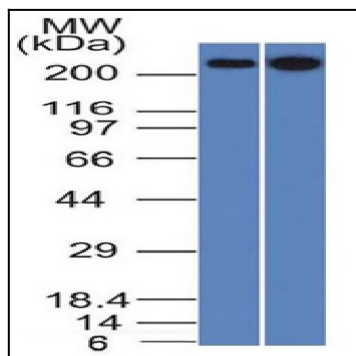


Fig. 1: Western Blot Analysis of HeLa and 293 cell lysates using Spectrin beta III Mouse Monoclonal Antibody (SPTBN2/1582).

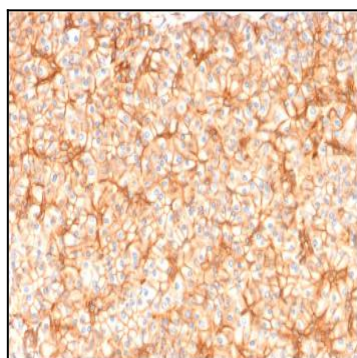


Fig. 2: Formalin-fixed, paraffin-embedded human Pancreas stained with Spectrin beta III Mouse Monoclonal Antibody (SPTBN2/1582).

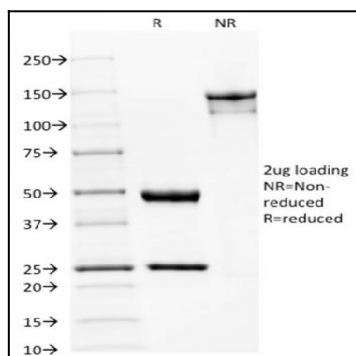


Fig. 3: SDS-PAGE Analysis Purified Spectrin beta III Mouse Monoclonal Antibody (SPTBN2/1582). Confirmation of Integrity and Purity of Antibody.

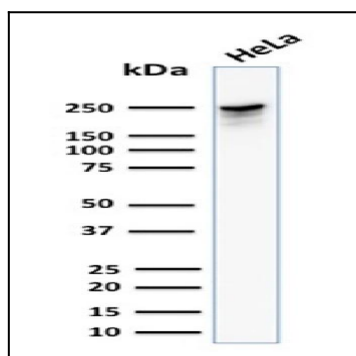


Fig. 4: Western Blot Analysis of human HeLa cell lysate using Spectrin beta III Mouse Monoclonal Antibody (SPTBN2/1582).

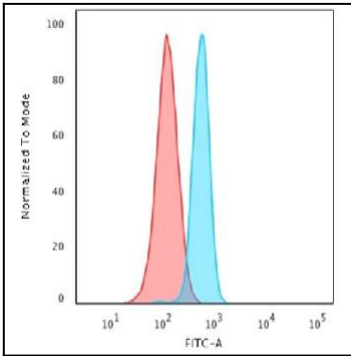


Fig. 5: Flow Cytometric Analysis of HeLa cells using Spectrin beta III Mouse Monoclonal Antibody (SPTBN2/1582). Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

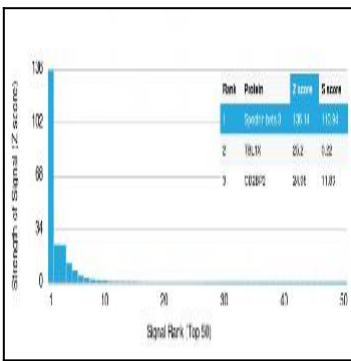


Fig. 6: Analysis of Protein Array containing more than 19,000 full-length human proteins using Spectrin beta III Mouse Monoclonal Antibody (SPTBN2/1582). Z- and S-Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the 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.