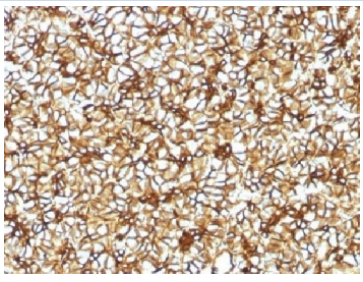
Spectrin beta III Antibody / SPTBN2 [clone SPTBN2/1582] (V3406)

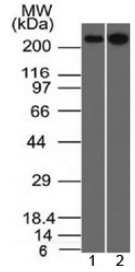
Catalog No.	Formulation	Size
V3406-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3406-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3406SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

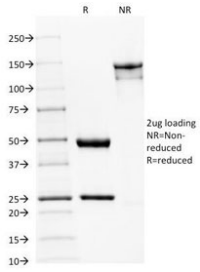
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2a, kappa
Clone Name	SPTBN2/1582
Purity	Protein G affinity chromatography
UniProt	O15020
Gene ID	6712
Localization	Cell surface, cytoplasm
Applications	ELISA : 2-4ug/ml (order BSA/azide-free format) Flow Cytometry : 1-2ug/10^6 cells Immunofluorescence : 0.5-1ug/ml Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml for 30 min at RT
Limitations	This Spectrin beta III antibody is available for research use only.



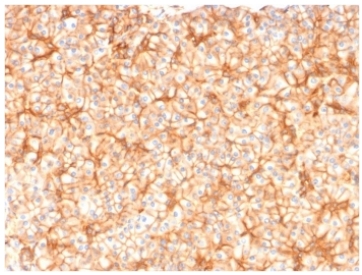
IHC testing of FFPE human pancreas with Spectrin beta III antibody (clone SPTBN2/1582). Required HIER: boil tissue sections in 10mM citrate buffer, pH 6, for 10-20 min followed by cooling at RT for 20 min.



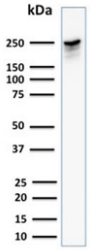
Western blot testing of human 1) HeLa and 2) HEK293 cell lysate with Spectrin beta III antibody (clone SPTBN2/1582). Predicted molecular weight ~246 kDa.



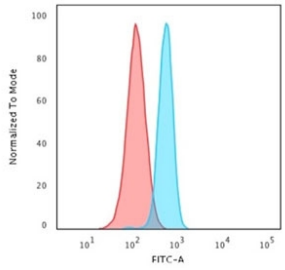
SDS-PAGE Analysis of Purified, BSA-Free Spectrin beta III Antibody (clone SPTBN2/1582). Confirmation of Integrity and Purity of the Antibody.



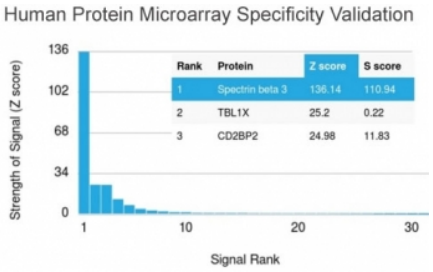
IHC testing of FFPE human pancreas with Spectrin beta III antibody (clone SPTBN2/1582). Required HIER: boil tissue sections in EDTA buffer, pH9, for 10-20 min followed by cooling at RT for 20 min.



Western blot testing of human HeLa cell lysate with Spectrin beta III antibody (clone SPTBN2/1582). Predicted molecular weight ~246 kDa.



Flow cytometry staining of human HeLa cells with Spectrin beta III antibody; Red=isotype control, Blue= Spectrin beta III antibody.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Spectrin beta III antibody (clone SPTBN2/1582). These results demonstrate the foremost specificity of the SPTBN2/1582 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.

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. Spectrin alpha and spectrin beta are present in erythrocytes, whereas spectrin alpha II (fodrin a) and spectrin beta I (fodrin b) are present in other somatic cells. SPTBN2/Spectrin beta III is highly homologous to both spectrin beta I and spectrin beta II. SPTBN2 is highly expressed in brain, kidney, pancreas and liver, and at lower levels in lung and placenta.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the Spectrin beta III antibody to be titered up or down for optimal performance.

Immunogen

Human recombinant partial protein corresponding to amino acids 356-475 was used as the immunogen for this Spectrin beta III antibody.

Storage

Store the Spectrin beta III antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

References (2)