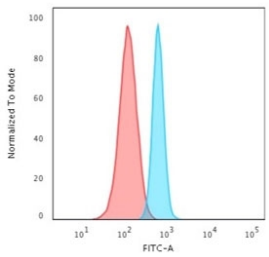
Recombinant Spectrin beta III Antibody / SPTBN2 [clone SPTBN2/3142R] (V7519)

Catalog No.	Formulation	Size
V7519-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7519-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7519SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V7519IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

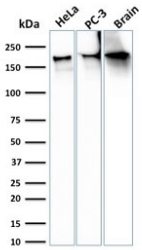
Recombinant RABBIT MONOCLONAL

Bulk quote request

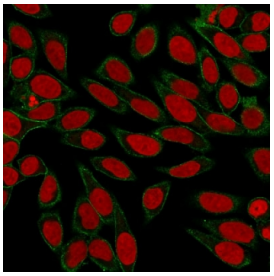
Species Reactivity	Human
Format	Purified
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	SPTBN2/3142R
Purity	Protein A affinity chromatography
UniProt	O15020
Localization	Cell surface, cytoplasm
Applications	ELISA : 2-4ug/ml (order BSA/azide-free format) Western Blot : 1-2ug/ml Flow Cytometry : 0.5-1ug/10^6 cells Immunofluorescence Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This recombinant Spectrin beta III antibody is available for research use only.



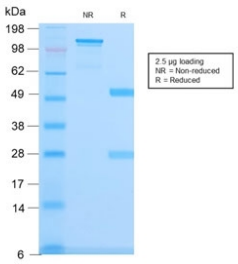
Flow cytometry staining of human HeLa cells with Spectrin beta III antibody; Red=isotype control, Blue= Spectrin beta III antibody.



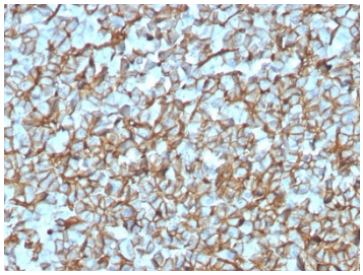
Western blot testing of human HeLa, PC-3 and brain lysate with recombinant Spectrin beta III antibody (clone SPTBN2/3142R). Predicted molecular weight ~246 kDa.



Immunofluorescent staining of human HeLa cells with recombinant Spectrin beta III antibody (green, clone SPTBN2/3142R) and Reddot nuclear stain (red).



SDS-PAGE analysis of purified, BSA-free recombinant Spectrin beta III antibody (clone SPTBN2/3142R) as confirmation of integrity and purity.



IHC testing of FFPE human pancreas with recombinant Spectrin beta III antibody (clone SPTBN2/3142R). Required HIER: boil tissue sections in 10mM citrate buffer, pH 6, for 10-20 min followed by cooling at RT for 20 min.

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 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.

Application Notes

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

1. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

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

Storage

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

References (2)