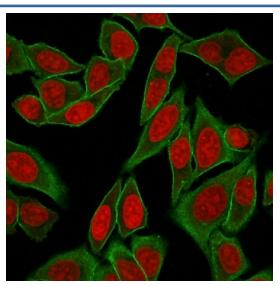
Recombinant Spectrin beta III Antibody / SPTBN2 [clone SPTBN2/2887R] (V7355)

Catalog No.	Formulation	Size
V7355-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7355-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7355SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

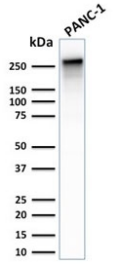
Recombinant RABBIT MONOCLONAL

Bulk quote request

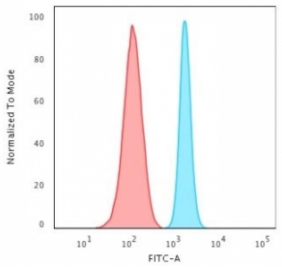
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Recombinant Rabbit Monoclonal
Isotype	Rabbit IgG, kappa
Clone Name	SPTBN2/2887R
Purity	Protein A affinity chromatography
UniProt	O15020
Localization	Cell surface, cytoplasm
Applications	Flow cytometry: 1-2ug/10^6 cells Immunofluorescence: 1-2ug/ml Western blot: 0.5-1ug/ml Immunohistochemistry (FFPE): 0.5-1ug/ml for 30 min at RT
Limitations	This recombinant Spectrin beta III antibody is available for research use only.



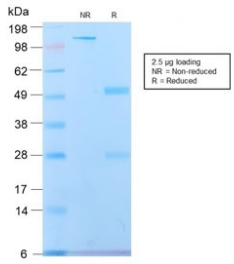
Immunofluorescent staining of fixed and permeabilized human HeLa cells with recombinant Spectrin beta III antibody (green, clone SPTBN2/2887R) and Reddot nuclear stain (red).



Western blot testing of human PANC-1 and HeLa cell lysate with recombinant Spectrin beta III antibody (clone SPTBN2/2887R). Predicted molecular weight ~246 kDa.



FACS testing of fixed and permeabilized human HeLa cells with recombinant Spectrin beta III antibody (blue) and isotype control (red).



SDS-PAGE analysis of purified, BSA-free recombinant Spectrin beta III antibody (clone SPTBN2/2887R) as confirmation of integrity and purity.

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.

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)

Copyright © NSJ Bioreagents. All rights reserved.