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36-3207: Anti-Spectrin beta III (SPTBN2) Monoclonal Antibody(Clone: SPTBN2/3142R)

Clonality :	Monoclonal
Clone Name :	SPTBN2/3142R
Application :	ELISA,WB,FACS,IF,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 :	Rabbit IgG
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); Western Blot (1-2ug/ml);Flow Cytometry (1-2ug/million cells) Immunofluorescence (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&degC followed by cooling at RT for 20 minutes);

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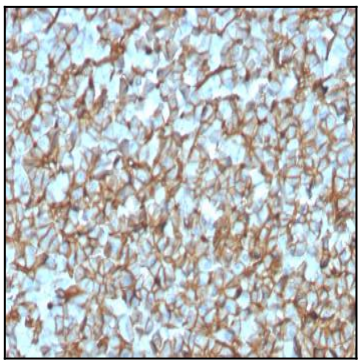

Fig. 1: Formalin-fixed, paraffin-embedded human Pancreas stained with Spectrin beta III Recombinant Rabbit Monoclonal (SPTBN2/3142R).

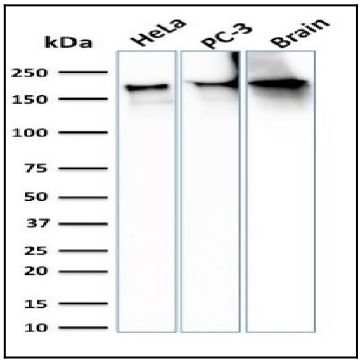

Fig. 2: Western Blot Analysis of HeLa, PC-3 cells and Brain tissue lysate using Spectrin beta III Recombinant Rabbit Monoclonal (SPTBN2/3142R).

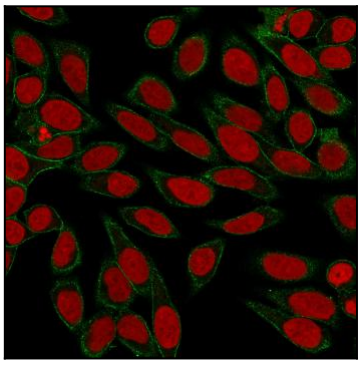

Fig. 3: Immunofluorescence Analysis of HeLa cells labeling Spectrin Beta III with Spectrin beta III Recombinant Rabbit Monoclonal (SPTBN2/3142R) followed by Goat anti-Mouse IgG-CF488 (Green). Nuclear counterstain is Reddot (Red)

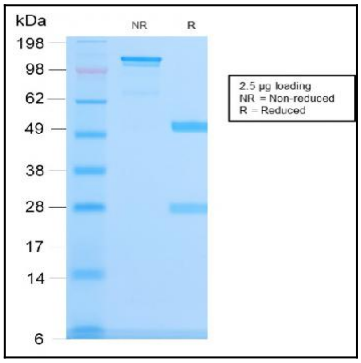

Fig. 4: SDS-PAGE Analysis Purified Spectrin beta III Recombinant Rabbit Monoclonal (SPTBN2/3142R). Confirmation of Purity and Integrity of Antibody.

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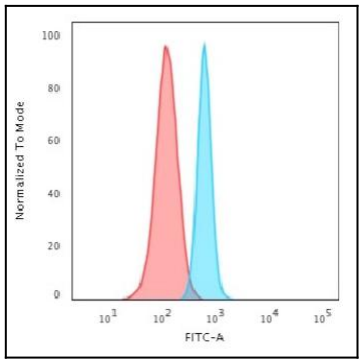

Fig. 5: Flow Cytometric Analysis of HeLa cells using Spectrin beta III Recombinant Rabbit Monoclonal (SPTBN2/3142R) followed by Goat anti-rabbit IgG-CF488 (Blue); Isotype Control (Red).

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