

Mouse Spectrin beta III (SPTBN2) Monoclonal Antibody | anti-SPTBN2 antibody

Spectrin beta III (SPTBN2)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA214525	Mouse	Human, Rat, Mouse. Others not known.	Immunohistochemistry, Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay

PRODUCT SYNONYMS

Spectrin beta III (SPTBN2); Monoclonal Antibody; Beta III spectrin; SCA5; Spectrin beta chain brain 2; Spectrin beta non-erythrocytic 2; Spectrin non-erythroid beta chain 2; Spinocerebellar ataxia 5; SPTBN2; anti-SPTBN2 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Rat, Mouse. Others not known.
Clonality	Monoclonal
Isotype	IgG1
Clone Number	SPTBN2/1584
Specificity	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 alpha and spectrin beta are present in erythrocytes, whereas spectrin alpha II (also designated fodrin alpha) and spectrin beta I (also designated fodrin beta) 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 beta III is highly homologous to both spectrin beta I and spectrin beta II. Spectrin beta 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.
Form/Format	200ug/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.
Sequence Length	2390
Applicable Applications for anti-SPTBN2 antibody	IHC (Immunohistochemistry), WB (Western Blot), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Immunogen	Recombinant human SPTBN2 fragment (aa356-475)
Cellular Localization	Cell Surface
Hu-chromosome Location	11q13.2
Positive Control	HeLa cells. Pancreas or Liver.
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded Mouse Kidney stained with Spectrin beta III Monoclonal Antibody (SPTBN2/1584).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded Rat Pancreas stained with Spectrin beta III Monoclonal Antibody (SPTBN2/1584).



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded Human Pancreas stained with Spectrin beta III Monoclonal Antibody (SPTBN2/1584).

ADDITIONAL INFORMATION

References	s Speicher, D.W. 1986. The present status of erythrocyte spectrin structure: the 106-residue repetitive structure is a basic feature of an entire class of proteins. J. Cell. Biochem. 30: 245-258. Coelman, T.R., et al. J.S. 1989. Functional diversity among spectrin isoforms. Cell Motil. Cytoskeleton 12: 225-247.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	5902122
NCBI GeneID	6712
NCBI Accession #	NP_008877.1
NCBI GenBank Nucleotide #	NM_006946.3
UniProt Accession #	O15020; O14872; O14873
Molecular Weight	246kDa
NCBI Official Full Name	spectrin beta chain, non-erythrocytic 2
NCBI Official Synonym Full Names	spectrin beta, non-erythrocytic 2
NCBI Official Symbol	SPTBN2
NCBI Official Synonym Symbols	SCA5; SCAR14; GTRAP41
NCBI Protein Information	spectrin beta chain, non-erythrocytic 2
UniProt Protein Name	Spectrin beta chain, non-erythrocytic 2
UniProt Gene Name	SPTBN2
UniProt Synonym Gene Names	KIAA0302; SCA5

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/spectrin-beta-iii-sptbn2-antibody-clone-sptbn2-1584-immunohistochemistry-western-blot-immunofluorescence-flow-cytometry-elisa/214525>