

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

Spectrin beta III (SPTBN2)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA214691	Mouse	Human. Others not known.	Immunohistochemistry, ELISA

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. Others not known.
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	SPTBN2/1778
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), ELISA
Immunogen	Recombinant fragment of human Spectrin beta III (SPTBN2) protein (around aa 356-475)
Cellular Localization	Cell Surface
Hu-chromosome Location	11q13.2
Positive Control	HeLa cells. Pancreas or Liver.

IMAGES



Application Data

Analysis of Protein Array containing more than 19, 000 full-length human proteins using Spectrin beta III Mouse Monoclonal Antibody (SPTBN2/1778). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.



SDS-PAGE

SDS-PAGE Analysis Purified Spectrin beta III Mouse Monoclonal Antibody (SPTBN2/1778).Confirmation of Integrity and Purity of Antibody.



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded Human Pancreas stained with Spectrin beta III Mouse Monoclonal Antibody (SPTBN2/1778).

ADDITIONAL INFORMATION

References	s Michael C. Stankewich, et al. PNAS, 1998. 95 (24) 14158-14163.
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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.