

Mouse anti-Human Spectrin beta 3 Monoclonal Antibody | anti-SPTBN2 antibody

Monoclonal Antibody to Spectrin beta 3 (Clone: ABM5A16)

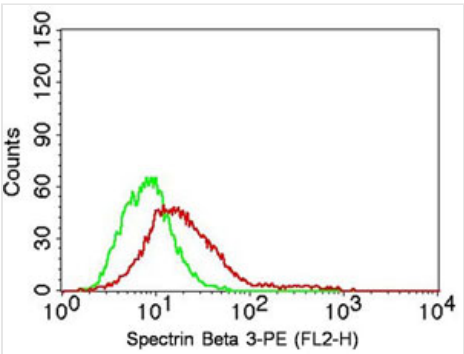
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA78432	Mouse	Human	Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

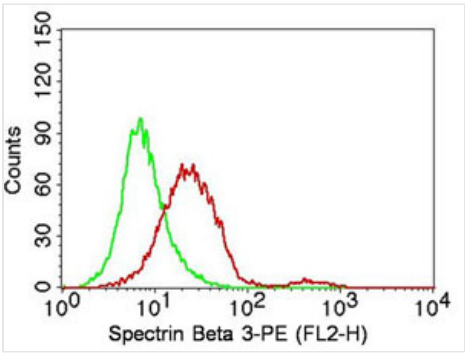
Spectrin beta 3; Monoclonal Antibody; Monoclonal Antibody to Spectrin beta 3 (Clone: ABM5A16); Spectrin beta chain; non-erythrocytic 2; Beta-III spectrin; Spinocerebellar ataxia 5 protein; anti-SPTBN2 antibody

PRODUCT SPECIFICATIONS

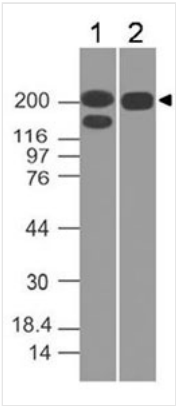
Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG2a, Kappa
Clone Number	ABM5A16
Purity/Purification	Purified Protein G Chromatography
Form/Format	Purified 25 ug in 50 uL/100 ug in 200 uL in PBS containing 0.05%BSA and 0.05% sodium azide. Sodium azide is highly toxic.
Sequence Length	2390
Applicable Applications for anti-SPTBN2 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	A partial length recombinant protein (a.a 1280-1450) of Spectrin beta 3 was used as the immunogen for this antibody.
Preparation and Storage	Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid repeated freeze and thaw cycles.



FCM/FACS (Flow Cytometry)
Figure-3: Intracellular flow analysis of human Spectrin beta 3 in HeLa cells using 2 ug/10⁶ cells of antibody (Clone: ABM5A16). Green represents isotype control; red represents anti-Spectrin beta 3 antibody. Goat anti-mouse PE conjugate was used as secondary antibody. (Cells were fixed with 4% paraformaldehyde for 10 min and washed with PBS by centrifuging at 1100 for 5 min followed by permeabilization for 20 min and washed again as mentioned above. Then cell were incubated with primary antibody for 45 min. and after washing the cells twice in PBS, incubated with conjugated secondary antibody for 30 min. Data acquisition was done after washing twice with PBS as mentioned above).



FCM/FACS (Flow Cytometry)
Figure-2: Intracellular flow analysis of human Spectrin beta 3 in A431 cells using 2 ug/10⁶ cells of antibody (Clone: ABM5A16). Green represents isotype control; red represents anti-Spectrin beta 3 antibody. Goat anti-mouse PE conjugate was used as secondary antibody. (Cells were fixed with 4% paraformaldehyde for 10 min and washed with PBS by centrifuging at 1100 for 5 min followed by permeabilization for 20 min and washed again as mentioned above. Then cell were incubated with primary antibody for 45 min. and after washing the cells twice in PBS, incubated with conjugated secondary antibody for 30 min. Data acquisition was done after washing twice with PBS as mentioned above).



WB (Western Blot)
Figure-1: Western blot analysis of Spectrin beta 3. Anti-Spectrin beta 3 antibody (Clone: ABM5A16) was used at 0.1 ug/ml on h Kidney and h Brain lysates.

ADDITIONAL INFORMATION

Related Product Information for anti-SPTBN2 antibody	Beta-III spectrin is a protein encoded by the gene SPTBN2, spans 2390 amino acids and consists of an amino-terminal actin binding domain (ABD), a central region containing seventeen spectrin repeat domains, and a carboxy-terminal pleckstrin homology domain. It is critical for the correct development and maintenance of Purkinje cell dendritic structure. Beta-III spectrin is expressed predominantly in the brain and is enriched in cerebellar Purkinje cells. In addition, Beta-III spectrin participates in endomembrane trafficking through its interaction with the actin related protein, ARP1. The functional unit of Beta-III spectrin is considered to be a tetrameric complex composed of two Beta-spectrin subunits and two Alpha-II-spectrin subunits. Mutations in the gene encoding Beta-III spectrin give rise to spinocerebellar ataxia type 5, a neurodegenerative disease characterized by progressive thinning of the molecular layer, loss of Purkinje cells and increasing motor deficits.
Product Categories/Family for anti-SPTBN2 antibody	Cancer Marker

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	268,309 Da
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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/monoclonal/spectrin-beta-3-antibody-clone-abm5a16-flow-cytometry-western-blot-elisa/78432>