

Mouse Spectrin Alpha 1 Monoclonal Antibody | anti-SPTA1 antibody

Spectrin Alpha 1 (Erythrocyte Marker)

CATALOG # AAA214689	HOST Mouse	REACTIVITY Human. Others not known.	APPLICATIONS Immunohistochemistry, ELISA
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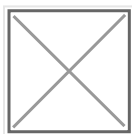
PRODUCT SYNONYMS

Spectrin Alpha 1; Monoclonal Antibody; Spectrin Alpha 1 (Erythrocyte Marker); Alpha I spectrin; Elliptocytosis 2 (EL2); Erythrocyte alpha spectrin; Erythroid alpha-spectrin; HPP; HS3; Spectrin alpha erythrocytic 1; SPH3; SPTA1; anti-SPTA1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human. Others not known.
Clonality	Monoclonal
Isotype	IgG2b, kappa
Clone Number	SPTA1/1810
Specificity	Spectrin is an actin crosslinking and molecular scaffold protein that links the plasma membrane to the actin cytoskeleton, and functions in the determination of cell shape, arrangement of transmembrane proteins, and organization of organelles. Spectrins function as membrane organizers and stabilizers, composed of non-homologous alpha and beta chains, which aggregate side-to-side in an anti-parallel fashion to form dimers, tetramers and higher polymers. Spectrin alpha I and spectrin beta I are present in erythrocytes, whereas spectrin alpha II (also designated fodrin alpha) and spectrin beta II (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.
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	2419
Applicable Applications for anti-SPTA1 antibody	IHC (Immunohistochemistry), ELISA
Immunogen	Recombinant human SPTA fragment (around aa356-475)
Cellular Localization	Cytoplasmic and Cell Surface
Hu-chromosome Location	1q23.1
Positive Control	Jurkat cells. Placenta or Tonsil.

IMAGES



Application Data

Analysis of Protein Array containing more than 19, 000 full-length human proteins using Spectrin, alpha 1 Mouse Monoclonal Antibody (SPTA1/1810) 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



SDS-PAGE

SDS -PAGE Analysis of Purified Spectrin alpha 1 Mouse Monoclonal Antibody (SPTA1/1810).Confirmation of Purity and Integrity.



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded Human Tonsil stained with Spectrin alpha 1 (SPTA1) Mouse Monoclonal Antibody (SPTA1/1810).



IHC (Immunohistochemistry)

Formalin-fixed, paraffin-embedded Human Placenta stained with Spectrin alpha 1 (SPTA1) Mouse Monoclonal Antibody (SPTA1/1810).

ADDITIONAL INFORMATION

References	1. 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	115298659
NCBI GeneID	6708
NCBI Accession #	NP_003117.2
NCBI GenBank Nucleotide #	NM_003126.3
UniProt Accession #	P02549; Q15514; Q5VYL1; Q5VYL2; Q6LDY5
Molecular Weight	240kDa
NCBI Official Full Name	spectrin alpha chain, erythrocytic 1
NCBI Official Synonym Full Names	spectrin alpha, erythrocytic 1
NCBI Official Symbol	SPTA1
NCBI Official Synonym Symbols	EL2; HPP; HS3; SPH3; SPTA
NCBI Protein Information	spectrin alpha chain, erythrocytic 1
UniProt Protein Name	Spectrin alpha chain, erythrocytic 1
UniProt Gene Name	SPTA1
UniProt Synonym Gene Names	SPTA

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.

