Mouse SHPK Monoclonal Antibody | anti-SHPK antibody

SHPK antibody

CATALOG #	HOST	APPLICATIONS
AAA107287	**Mouse**	**Western Blot, Flow Cytometry, Functional Assay**

PRODUCT SYNONYMS

SHPK; Monoclonal Antibody; SHPK antibody; Monoclonal SHPK; Anti-SHPK; Sedoheptulokinase; SHK; CARKL; Carbohydrate kinase-like protein; Carbohydrate kinase-like; anti-SHPK antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	2A12
Purity/Purification	SHPK antibody was purified by affinity chromatography.
Form/Format	Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration	500 ug-1 mg/ml (varies by lot)
Sequence Length	478
Applicable Applications for anti-SHPK antibody	WB (Western Blot), FCM/FACS (Flow Cytometry)
Biological Significance	SHPK has weak homology to several carbohydrate kinases, a class of proteins involved in the phosphorylation of sugars as they enter a cell, inhibiting return across the cell membrane. Sequence variation betweenthis novel gene and known carbohydrate kinases suggests the possibility of a different substrate, cofactor or changesin kinetic properties distinguishing it from other carbohydrate kinases. The gene resides in a region commonly deleted in cystinosis patients, suggesting a role as a modifier for the cystinosis phenotype. The genomic region is also richin Alu repetitive sequences, frequently involved in chromosomal rearrangements.
Cross-Reactivity	Human
Immunogen	SHPK antibody was raised in mouse using a full length recombinant protein of human SHPK (NP_037408) produced in HEK293 cell as the immunogen.
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

IMAGES

WB (Western Blot)
Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant SHPK protein (Right) or empty vector (Left) detected with SHPK antibody

FCM/FACS (Flow Cytometry)
Flow Cytometric analysis of HEK293T cells transfected with either recombinant SHPK protein (red) or empty vector (blue) stained using SHPK antibody

ADDITIONAL INFORMATION

Related Product Information for anti-SHPK antibody	Mouse monoclonal SHPK antibody
Product Categories/Family for anti-SHPK antibody	Cell Biology

NCBI AND UNIPROT INFORMATION

NCBI GI #	74315356
NCBI GeneID	23729
NCBI Accession #	NP_037408
NCBI GenBank Nucleotide #	NM_013276.2
UniProt Accession #	Q9UHJ6; Q8WUH3; B2R640
Molecular Weight	51,491 Da
NCBI Official Full Name	sedoheptulokinase
NCBI Official Synonym Full Names	sedoheptulokinase
NCBI Official Symbol	SHPK
NCBI Official Synonym Symbols	SHK; CARKL
NCBI Protein Information	sedoheptulokinase
UniProt Protein Name	Sedoheptulokinase
UniProt Gene Name	**SHPK**
UniProt Synonym Gene Names	CARKL; SHK
UniProt Entry Name	SHPK_HUMAN

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/shpk-antibody-clone-2a12-western-blot-flow-cytometry-elisa/107287