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Product datasheet for TA503145

CARKL (SHPK) Mouse Monoclonal Antibody [Clone ID: OTI1D1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI1D1
Applications:	FC, WB
Recommended Dilution:	WB 1:2000, FLOW 1:100
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human SHPK (NP_037408) produced in HEK293T cell.
Formulation:	PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration:	0.65 mg/ml
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	51.3 kDa
Gene Name:	sedoheptulokinase
Database Link:	NP_037408 Entrez Gene 74637 MouseEntrez Gene 287479 RatEntrez Gene 23729 Human Q9UHJ6

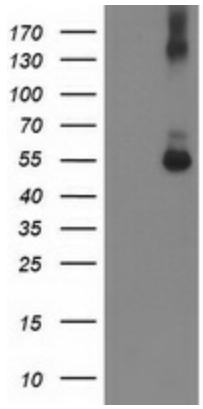
View online »

Background: The protein encoded by this gene 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 between this novel gene and known carbohydrate kinases suggests the possibility of a different substrate, cofactor or changes in 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 rich in Alu repetitive sequences, frequently involved in chromosomal rearrangements. [provided by RefSeq]. COMPLETENESS: complete on the 3' end.

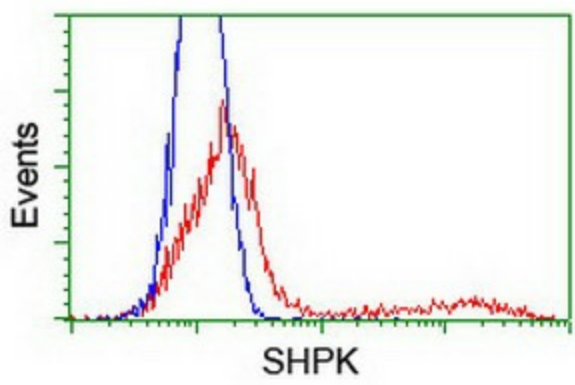
Synonyms: CARKL; SHK

Protein Families: Druggable Genome

Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY SHPK ([RC204421], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-SHPK. Positive lysates [LY415695] (100ug) and [LC415695] (20ug) can be purchased separately from OriGene.



HEK293T cells transfected with either [RC204421] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-SHPK antibody (TA503145), and then analyzed by flow cytometry.