

Product datasheet for CF503145

OriGene Technologies, Inc.

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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: Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)

Reconstitution Method: For reconstitution, we recommend adding 100uL distilled water to a final antibody

concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)

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





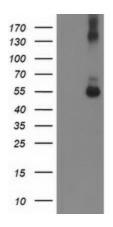
Background:

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.

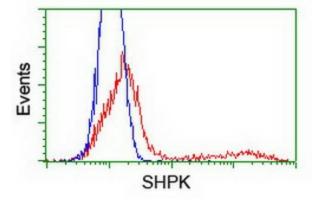
Synonyms: CARKL; SHK

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.