

Product Name: CARKL Rabbit Polyclonal Antibody
Catalog #: APRab07931



Summary

Production Name	CARKL Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	IHC, WB, ELISA
Reactivity	Human, Mouse, Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	SHPK
Alternative Names	SHPK; CARKL; Sedoheptulokinase; SHK; Carbohydrate kinase-like protein
Gene ID	23729.0
SwissProt ID	Q9UJH6. The antiserum was produced against synthesized peptide derived from human CARKL. AA range: 31-80

Application

Dilution Ratio	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:20000..
Molecular Weight	55kD

Background

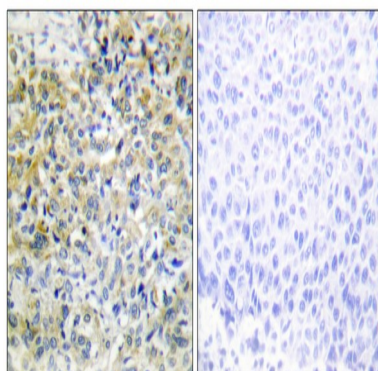
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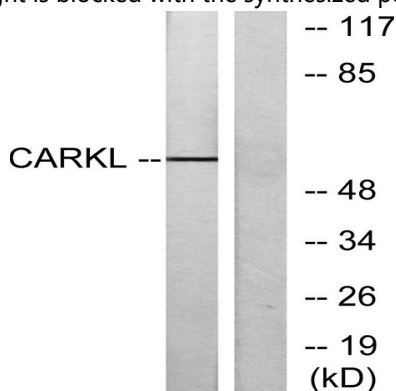
sedoheptulokinase(SHPK) Homo sapiens The protein encoded by this gene has weak homology to several carbohydrate kinases, a class of proteins involved in the phosphorylation of sugars as they enter a cell, inhibiting return across the cell membrane. Sequence variation between this novel gene and known 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, Jul 2008],catalytic activity:ATP + sedoheptulose = ADP + sedoheptulose 7-phosphate.,disease:Deficiency of the SHPK gene in cystinosis patients with a common 57-Kb deletion causes urinary accumulation of sedoheptulose and erythritol.,similarity:Belongs to the FGGY kinase family.,tissue specificity:Strongly expressed in liver, kidney and pancreas. Expressed at lower levels in placenta and heart. Very weakly expressed in lung and brain.,

Research Area

Image Data

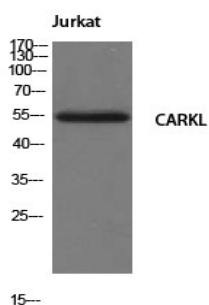


Immunohistochemistry analysis of paraffin-embedded human liver carcinoma tissue, using CARKL Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from Jurkat cells, using CARKL Antibody. The lane on the right is blocked with the synthesized peptide.

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Western Blot analysis of Jurkat cells using CARKL Polyclonal Antibody

Note

For research use only.