



# CARKL Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-14693
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Mouse;Rat
<b>Applications</b>	WB;IHC;IF;ELISA
<b>Gene Name</b>	SHPK
<b>Protein Name</b>	Sedoheptulokinase
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human CARKL. AA range:31-80
<b>Specificity</b>	CARKL Polyclonal Antibody detects endogenous levels of CARKL protein.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Dilution</b>	WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/20000.. IF 1:50-200
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	SHPK; CARKL; Sedoheptulokinase; SHK; Carbohydrate kinase-like protein
<b>Observed Band</b>	55kD
<b>Cell Pathway</b>	Cytoplasm .
<b>Tissue Specificity</b>	Strongly expressed in liver, kidney and pancreas. Expressed at lower levels in placenta and heart. Very weakly expressed in lung and brain.
<b>Function</b>	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.,
<b>Background</b>	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],

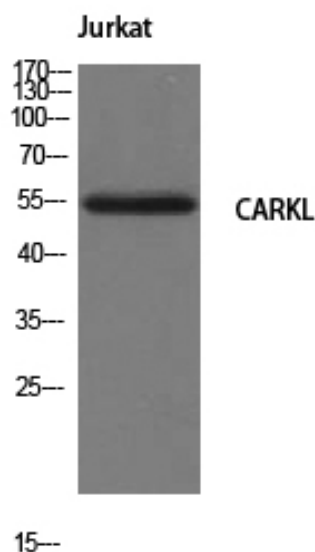
**matters needing attention**

Avoid repeated freezing and thawing!

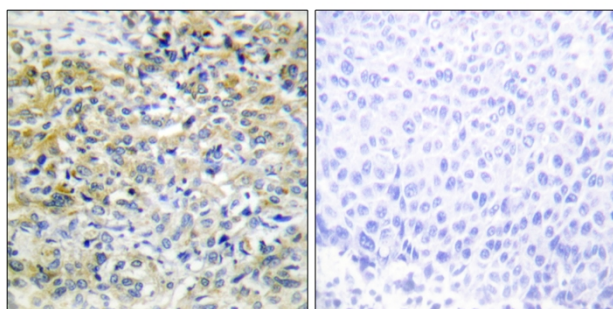
**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

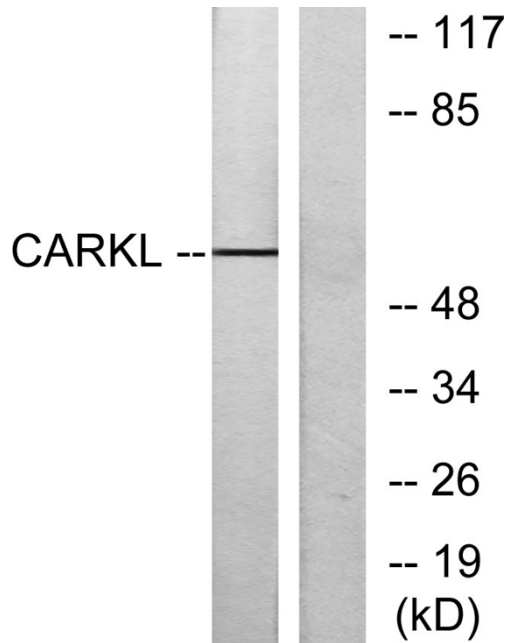
**Products Images**



Western Blot analysis of Jurkat cells using CARKL Polyclonal Antibody



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.