



CARKL Polyclonal Antibody

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

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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],

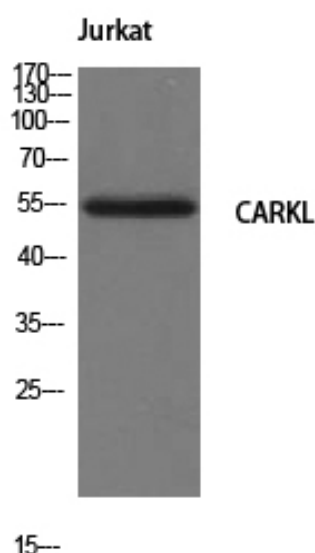
matters needing attention

Avoid repeated freezing and thawing!

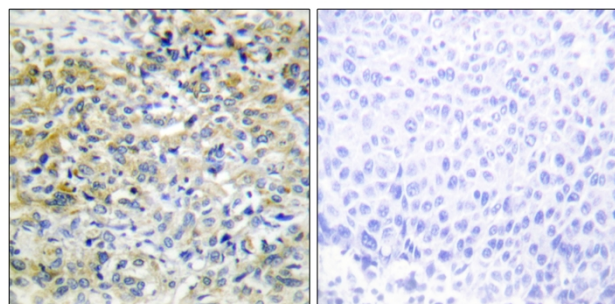
Usage suggestions

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

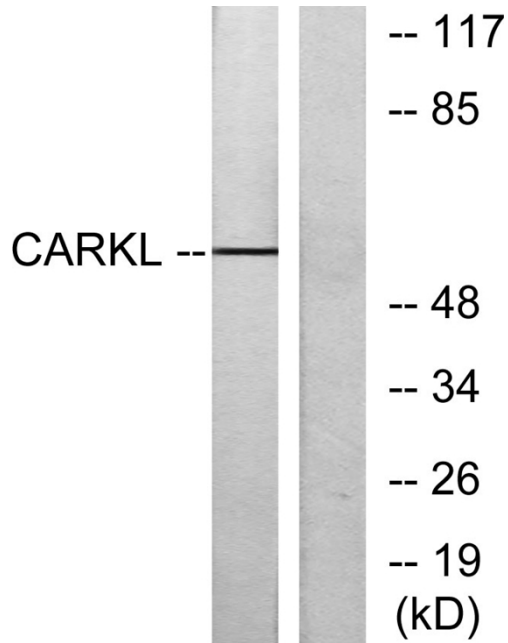
Products Images



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.