

For Research Use Only

SHPK Polyclonal antibody

Catalog Number:12441-1-AP



Basic Information

Catalog Number: 12441-1-AP	GenBank Accession Number: BC020543	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 180 ug/ml by Nanodrop and 133 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 23729	Recommended Dilutions: WB 1:500-1:1000 IHC 1:20-1:200
Source: Rabbit	UNIPROT ID: Q9UHI6	
Isotype: IgG	Full Name: sedoheptulokinase	
Immunogen Catalog Number: AG3150	Calculated MW: 478 aa, 52 kDa	
	Observed MW: 52 kDa	

Applications

Tested Applications:
WB, IHC, ELISA

Species Specificity:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : MDA-MB-231 cells, RAW 264.7 cells, mouse heart tissue

IHC : human prostate cancer tissue,

Background Information

SHPK, also named CARKL, is a carbohydrate kinase involved in the phosphorylation of sugars as they enter a cell, inhibiting return across the cell membrane (PubMed: 10673275). SHPK is a sedoheptulose kinase of the pentose phosphate pathway. It acts as a modulator of macrophage activation through control of glucose metabolism (PMID: 22682222).

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

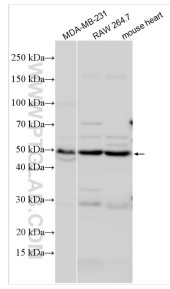
For technical support and original validation data for this product please contact:

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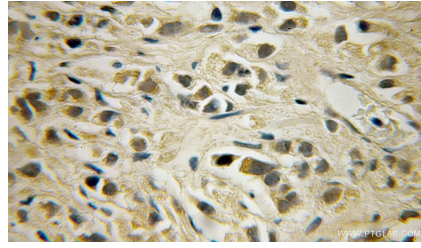
E: proteintech@ptglab.com
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 12441-1-AP (SHPK antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human prostate cancer using 12441-1-AP (SHPK antibody) at dilution of 1:50 (under 10x lens).