

For Research Use Only

# SHPK Recombinant antibody

Catalog Number: 82875-1-RR



## Basic Information

<b>Catalog Number:</b> 82875-1-RR	<b>GenBank Accession Number:</b> BC020543	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 23729	<b>CloneNo.:</b> 230115A4
<b>Source:</b> Rabbit	<b>Full Name:</b> sedoheptulokinase	<b>Recommended Dilutions:</b> IF 1:150-1:600
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 478 aa, 52 kDa	
<b>Immunogen Catalog Number:</b> AG33893		

## Applications

<b>Tested Applications:</b> FC, IF, ELISA	<b>Positive Controls:</b> IF : U2OS cells,
<b>Species Specificity:</b> Human	

## 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

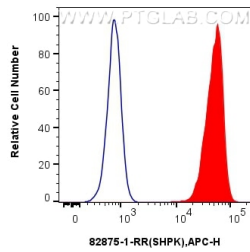
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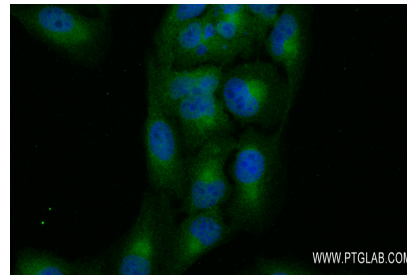
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## Selected Validation Data



1X10<sup>6</sup> U2OS cells were intracellularly stained with 0.5 ug Anti-Human SHPK (82875-1-RR, Clone:230115A4) and Alexa Fluor™ Plus 647-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.5 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP, Clone: ) (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



Immunofluorescent analysis of (-20°C Ethanol) fixed U2OS cells using SHPK antibody (82875-1-RR, Clone: 230115A4 ) at dilution of 1:300 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).