

For Research Use Only

# SHPK Recombinant antibody, PBS Only



Catalog Number: 82875-1-PBS

## Basic Information

|                           |             |                           |                   |                      |                        |
|---------------------------|-------------|---------------------------|-------------------|----------------------|------------------------|
| Catalog Number:           | 82875-1-PBS | GenBank Accession Number: | BC020543          | Purification Method: | Protein A purification |
| Size:                     | 1mg/ml      | GeneID (NCBI):            | 23729             | CloneNo.:            | 230115A4               |
| Source:                   | Rabbit      | UNIPROT ID:               | Q9UHI6            |                      |                        |
| Isotype:                  | IgG         | Full Name:                | sedoheptulokinase |                      |                        |
| Immunogen Catalog Number: | AG33893     | Calculated MW:            | 478 aa, 52 kDa    |                      |                        |

## Applications

Tested Applications:  
Indirect ELISA, IF/ICC

Species Specificity:  
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 -80°C.  
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:  
PBS Only

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

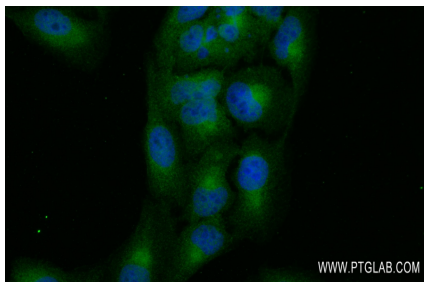
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

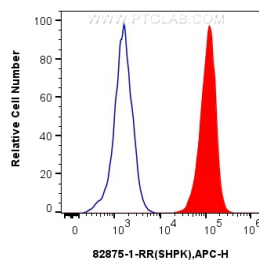
W: [ptgcn.com](http://ptgcn.com)

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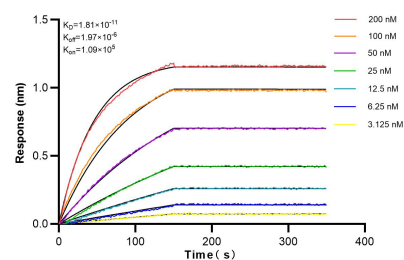
## Selected Validation Data



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). This data was developed using the same antibody clone with 82875-1-PBS in a different storage buffer formulation.



1x10<sup>6</sup> U-2 OS were intracellularly stained with 0.25 ug Anti-Human SHPK (82875-1-RR, Clone:230115A4) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:166(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set. This data was developed using the same antibody clone with 82875-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 82875-1-RR against Human SHPK were performed. The affinity constant is 18.1 pM.