

For Research Use Only

SHPK Recombinant antibody

Catalog Number: 82875-1-RR



Basic Information

Catalog Number:

82875-1-RR

Size:

1000 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG33893

GenBank Accession Number:

BC020543

GeneID (NCBI):

23729

UNIPROT ID:

Q9UHI6

Full Name:

sedoheptulokinase

Calculated MW:

478 aa, 52 kDa

Purification Method:

Protein A purification

CloneNo.:

230115A4

Recommended Dilutions:

IF/ICC 1:150-1:600

Applications

Tested Applications:

IF/ICC, FC (Intra), ELISA

Species Specificity:

human

Positive Controls:

IF/ICC : U2OS cells,

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

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

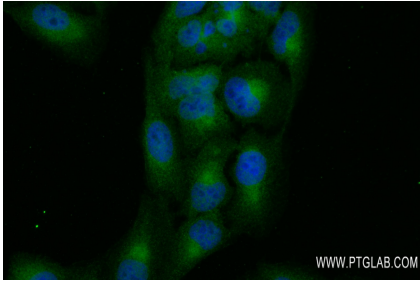
T: 4006900926

E: Proteintech-CN@ptglab.com

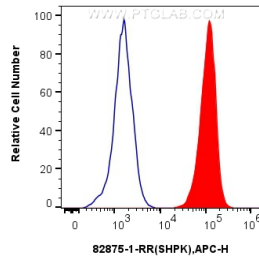
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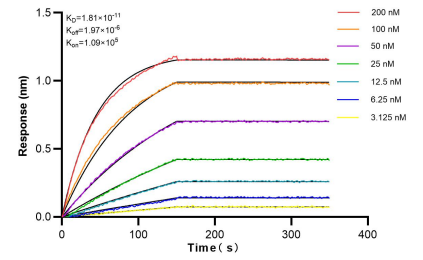
Selected Validation Data



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).



1×10^6 U-2 OS were intracellularly stained with 0.25 μ g 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 μ g Rabbit IgG control Rabbit PolyAb (30000-0-AP). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



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