

For Research Use Only

SHPK Recombinant antibody

Catalog Number: 82875-1-RR



Basic Information

Catalog Number: 82875-1-RR	GenBank Accession Number: BC020543	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 23729	CloneNo.: 230115A4
Source: Rabbit	UNIPROT ID: Q9UJH6	Recommended Dilutions: IF/ICC 1:150-1:600
Isotype: IgG	Full Name: sedoheptulokinase	
Immunogen Catalog Number: AG33893	Calculated MW: 478 aa, 52 kDa	

Applications

Tested Applications: IF/ICC, FC (Intra), ELISA	Positive Controls: IF/ICC : U2OS cells,
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

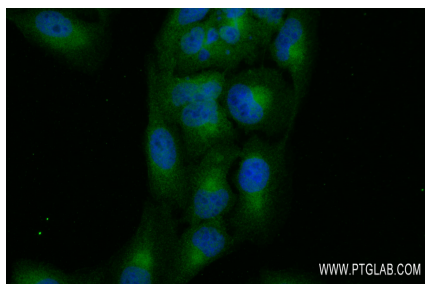
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

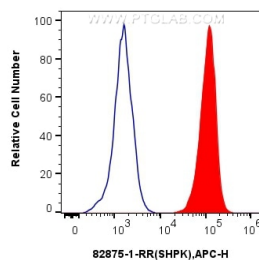
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

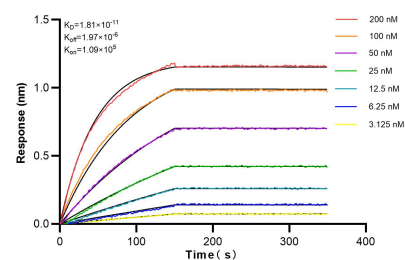
Selected Validation Data



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 Goat Anti-Rabbit IgG(H+L).



1x10⁶ U-2 OS were intracellularly stained with 0.25 ug Anti-Human SHPK (82875-1-RR, Clone:230115A4) and APC-Conjugated 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.



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