

For Research Use Only

# CERK Polyclonal antibody

Catalog Number: 25731-1-AP



## Basic Information

### Catalog Number:

25731-1-AP

### Size:

150ul, Concentration: 900 ug/ml by Nanodrop and 433 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG22774

### GenBank Accession Number:

BC126940

### GeneID (NCBI):

64781

### UNIPROT ID:

Q8TCT0

### Full Name:

ceramide kinase

### Calculated MW:

537 aa, 60 kDa, 38 kDa

### Observed MW:

38 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

## Applications

### Tested Applications:

WB, IHC, ELISA

### Species Specificity:

human, mouse

**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 : mouse heart tissue, mouse liver tissue

IHC : mouse heart tissue, human breast cancer tissue

## Background Information

Ceramide kinase (CERK) is a crucial lipid kinase that specifically catalyses ceramide (CER) to ceramide-1-phosphate. It plays a vital role in biological functions and certain diseases, including aberrant wound healing (PMID: 24823941), obesity-diabetes (PMID: 22465662), mesangio-proliferative kidney diseases (PMID: 25134723), cancer (PMID: 25164007) and neuroblastoma (PMID: 22579669). CERK has 2 isoforms with the molecular weight of 60 and 38 kDa.

## 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

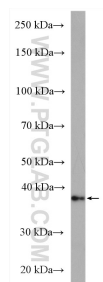
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

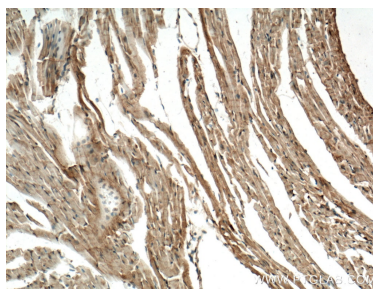
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

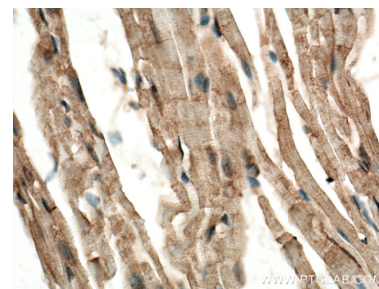
## Selected Validation Data



mouse heart tissue were subjected to SDS PAGE followed by western blot with 25731-1-AP (CERK antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 25731-1-AP (CERK antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 25731-1-AP (CERK antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).