

For Research Use Only

# CERK Polyclonal antibody

Catalog Number: 25731-1-AP



## Basic Information

|   |   |  |
|---|---|--|
| <b>Catalog Number:</b><br>25731-1-AP        | <b>GenBank Accession Number:</b><br>BC126940    | <b>Purification Method:</b><br>Antigen affinity purification       |
| <b>Size:</b><br>900 µg/ml                   | <b>GeneID (NCBI):</b><br>64781                  | <b>Recommended Dilutions:</b><br>WB 1:500-1:1000<br>IHC 1:50-1:500 |
| <b>Source:</b><br>Rabbit                    | <b>UNIPROT ID:</b><br>Q8TCTO                    |  |
| <b>Isotype:</b><br>IgG                      | <b>Full Name:</b><br>ceramide kinase            |  |
| <b>Immunogen Catalog Number:</b><br>AG22774 | <b>Calculated MW:</b><br>537 aa, 60 kDa, 38 kDa |  |
|   | <b>Observed MW:</b><br>38 kDa                   |  |

## Applications

### Tested Applications:

IHC, WB, 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

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

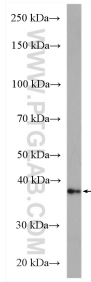
T: 4006900926

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

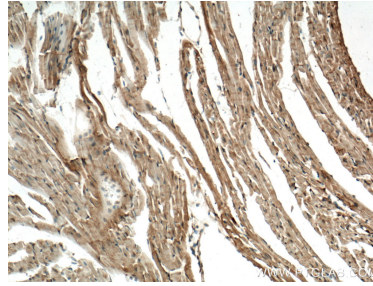
W: [ptgcn.com](http://ptgcn.com)

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

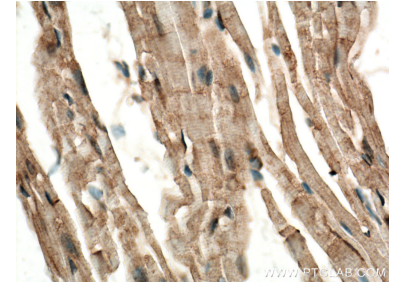
## Selected Validation Data



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).