

# CERK Polyclonal antibody

Catalog Number: 25731-1-AP

## Basic Information

**Catalog Number:**

25731-1-AP

**Size:**

900 µg/ml

**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:**

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:**

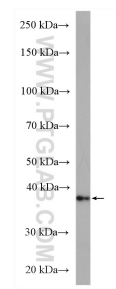
Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

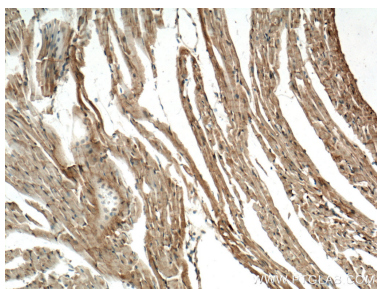
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

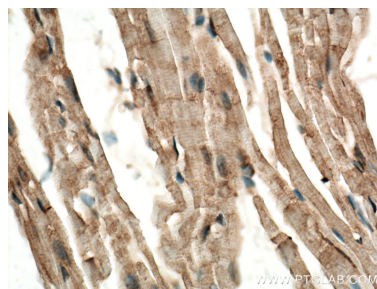
Selected Validation Data



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).