

**Ceramide Kinase / CERK Antibody (N-Terminus)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS10651****Specification**

---

**Ceramide Kinase / CERK Antibody (N-Terminus) - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | IHC-P                  |
| Primary Accession | <a href="#">Q8TCT0</a> |
| Reactivity        | Human                  |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Calculated MW     | 60kDa KDa              |
| Dilution          | IHC-P~~N/A             |

**Ceramide Kinase / CERK Antibody (N-Terminus) - Additional Information****Gene ID** 64781**Other Names**

Ceramide kinase, hCERK, 2.7.1.138, Acylsphingosine kinase, Lipid kinase 4, LK4, CERK, KIAA1646

**Target/Specificity**

Human CERK. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

**Reconstitution & Storage**

Long term: -70°C; Short term: +4°C

**Precautions**

Ceramide Kinase / CERK Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

**Ceramide Kinase / CERK Antibody (N-Terminus) - Protein Information****Name** CERK**Synonyms** KIAA1646**Function**

Catalyzes specifically the phosphorylation of ceramide to form ceramide 1-phosphate (PubMed:<a href="http://www.uniprot.org/citations/11956206" target="\_blank">11956206</a>, PubMed:<a href="http://www.uniprot.org/citations/16269826" target="\_blank">16269826</a>, PubMed:<a href="http://www.uniprot.org/citations/19168031" target="\_blank">19168031</a>). Acts efficiently on natural and analog ceramides (C6, C8, C16 ceramides, and C8-dihydroceramide), to a lesser extent on C2- ceramide and C6-dihydroceramide, but not on other lipids, such as various sphingosines (PubMed:<a href="http://www.uniprot.org/citations/11956206" target="\_blank">11956206</a>, PubMed:<a href="http://www.uniprot.org/citations/16269826" target="\_blank">16269826</a>, PubMed:<a href="http://www.uniprot.org/citations/19168031" target="\_blank">19168031</a>).

target="\_blank">19168031</a>). Shows a greater preference for D-erythro isomer of ceramides (PubMed:<a href="http://www.uniprot.org/citations/16269826" target="\_blank">16269826</a>). Binds phosphoinositides (PubMed:<a href="http://www.uniprot.org/citations/19168031" target="\_blank">19168031</a>).

#### Cellular Location

Cytoplasm. Cell membrane; Peripheral membrane protein

#### Tissue Location

High level expression in heart, brain, skeletal muscle, kidney and liver; moderate in peripheral blood leukocytes and thymus; very low in spleen, small intestine, placenta and lung

#### Volume

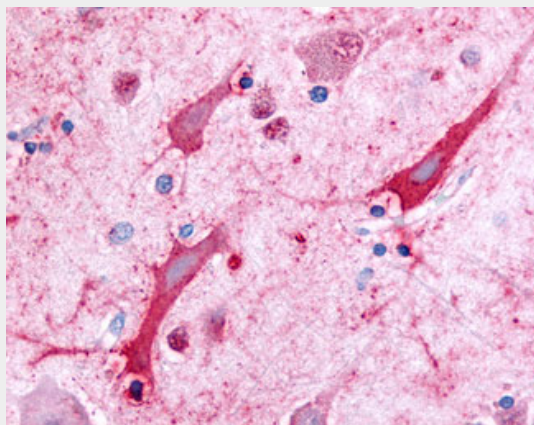
50  $\mu$ l

### Ceramide Kinase / CERK Antibody (N-Terminus) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Ceramide Kinase / CERK Antibody (N-Terminus) - Images



Anti-CERK antibody ALS10651 IHC of human brain, cortex.

### Ceramide Kinase / CERK Antibody (N-Terminus) - Background

Catalyzes specifically the phosphorylation of ceramide to form ceramide 1-phosphate. Acts efficiently on natural and analog ceramides (C6, C8, C16 ceramides, and C8-dihydroceramide), to a lesser extent on C2-ceramide and C6-dihydroceramide, but not on other lipids, such as various sphingosines. Binds phosphoinositides.

### Ceramide Kinase / CERK Antibody (N-Terminus) - References

Sugiura M.,et al.J. Biol. Chem. 277:23294-23300(2002).  
Van Veldhoven P.P.,et al.Submitted (APR-2002) to the EMBL/GenBank/DDBJ databases.  
Collins J.E.,et al.Genome Biol. 5:R84.1-R84.11(2004).  
Ota T.,et al.Nat. Genet. 36:40-45(2004).  
Dunham I.,et al.Nature 402:489-495(1999).