



## Rabbit Anti-CERK antibody

SL10364R

<b>Product Name:</b>	CERK
<b>Chinese Name:</b>	神经酰胺激酶CERK抗体
<b>Alias:</b>	Acylsphingosine kinase; Ceramide kinase; hCERK; KIAA1646; Lipid kinase 4; LK4; CerK; CERK1_HUMAN.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	60kDa
<b>Cellular localization:</b>	cytoplasmicThe cell membrane
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human CERK:101-200/537
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	Ceramide kinases convert the sphingolipid metabolite ceramide into ceramide-1-phosphate, both key mediators of cellular apoptosis and survival. Ceramide metabolism plays an essential role in the viability of neuronal cells, the membranes of which are particularly rich in sphingolipids. CERK catalyzes specifically the phosphorylation of ceramide to form ceramide 1-phosphate. This enzyme acts efficiently on natural and analog ceramides (C6, C8, C16 ceramides, and C8 dihydroceramide), and to a lesser

extent on C2-ceramide and C6-dihydroceramide, but not on other lipids, such as various sphingosines. High level expression is noted in heart, brain, skeletal muscle, kidney and liver; moderate expression in peripheral blood leukocytes and thymus; and low expression in spleen, small intestine, placenta and lung.

**Function:**

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.

**Subcellular Location:**

Cytoplasm. Membrane; Peripheral membrane protein.

**Tissue Specificity:**

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.

**Similarity:**

Contains 1 DAGKc domain.

**SWISS:**

Q8TCT0

**Gene ID:**

64781

**Database links:**

[Entrez Gene: 64781](#)Human

[Entrez Gene: 223753](#)Mouse

[Entrez Gene: 300129](#)Rat

[Omir: 610307](#)Human

[SwissProt: Q8TCT0](#)Human

[SwissProt: Q8K4Q7](#)Mouse

[Unigene: 200668](#)Human

[Unigene: 222685](#)Mouse

[Unigene: 99537](#)Rat

**Important Note:**

	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
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