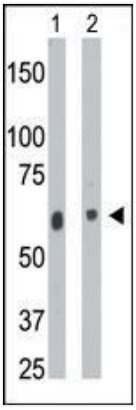
CERK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CERK, Polyclonal Antibody
Full Product Name	CERK, CT (CERK, KIAA1646, Ceramide kinase, Acylsphingosine kinase, Lipid kinase 4) (Azide free) (HRP)
Product Gene Name	anti-CERK antibody
Product Synonym Names	CERK; KIAA1646; Ceramide kinase; Acylsphingosine kinase; Lipid kinase 4
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein G Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	37,781 Da
3D Structure	ModBase 3D Structure for Q8TCT0
Immunogen	CERK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 495~524 amino acids from the C-terminal region of human CERK.
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-CERK antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-CERK antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-CERK antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CERK antibody	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.
Product References and Citations for anti-CERK antibody	J. Biol. Chem. 279 (17), 17570-17577 (2004). J. Biol. Chem. 278 (40), 38206-38213 (2003). J. Biol. Chem. 277 (26), 23294-23300 (2002).

Other Notes	Small volumes of anti-CERK antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CERK purchase	MBS6285242 is an antibody targeting CERK. Also known as CERK, CT (CERK, KIAA1646, Ceramide kinase, Acylsphingosine kinase, Lipid kinase 4) (Azide free) (HRP). Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-CERK antibody
The anti-CERK Pab is used in Western blot to detect CERK in mouse heart tissue lysate (Lane 1) and A2058 cell lysate (Lane 2).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CERK. It may not necessarily be applicable to this product.

NCBI GI #	20336726
NCBI GeneID	64781
NCBI Accession #	NP_073603
UniProt Primary Accession #	Q8TCT0
UniProt Secondary Accession #	Q6NX59; Q9BYB3; Q9UGE5; A0JNT4; A8K611
UniProt Related Accession #	Q8TCT0
GenBank Nucleotide #	NM_022766
NCBI Official Full Name	ceramide kinase
NCBI Official Synonym Full Names	ceramide kinase
NCBI Official Symbol	CERK
NCBI Official Synonym Symbols	LK4; hCERK; dA59H18.2; dA59H18.3
UniProt Protein Name	Ceramide kinase
UniProt Synonym Protein Names	Acylsphingosine kinase; Lipid kinase 4; LK4
Protein Family	Ceramide kinase
UniProt Gene Name	CERK
UniProt Synonym Gene Names	KIAA1646; hCERK; LK4
NCBI Protein Information	ceramide kinase; acylsphingosine kinase; lipid kinase 4; lipid kinase LK4
UniProt Comments for CERK	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.

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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