CERK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CERK, Polyclonal Antibody
Full Product Name	CERK Antibody
Product Gene Name	anti-CERK antibody
Product Synonym Names	LK4; hCERK; dA59H18.2; dA59H18.3
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen affinity purification.
Specificity	The antibody detects endogenous levels of total CERK protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	37,781 Da
3D Structure	ModBase 3D Structure for Q8TCT0
Immunogen	Fusion protein corresponding to a region derived from internal residues of human ceramide kinase
Product Categories/Family for anti-CERK antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-CERK antibody	Immunohistochemistry (IHC)
Application Notes for anti-CERK antibody	IHC: 1:25-1:100
Related Product Information for anti-CERK antibody	CERK converts ceramide to ceramide 1-phosphate (C1P), a sphingolipid metabolite. Both CERK and C1P have been implicated in various cellular processes, including proliferation, apoptosis, phagocytosis, and inflammation. 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
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	MBS8589587 is an antibody targeting CERK. Also known as CERK Antibody. Reactive in Human. Host: Rabbit.

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_073603.2
UniProt Primary Accession #	Q8TCT0
UniProt Secondary Accession #	Q6NX59; Q9BYB3; Q9UGE5; A0JNT4; A8K611
UniProt Related Accession #	Q8TCT0
GenBank Nucleotide #	NM_022766.5
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
NCBI Summary for CERK	CERK converts ceramide to ceramide 1-phosphate (C1P), a sphingolipid metabolite. Both CERK and C1P have been implicated in various cellular processes, including proliferation, apoptosis, phagocytosis, and inflammation (Kim et al., 2006 [PubMed 16488390]).[supplied by OMIM, Mar 2008]
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.
Research Articles on CERK	**1.** our findings identify a functional role for Cerk in breast cancer recurrence and suggest the clinical utility of agents targeted against this prosurvival pathway.
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