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CERK Antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI15063

Product Information

Application	WB
Primary Accession	Q8TCT0
Other Accession	NM_022766, NP_073603
Reactivity	Human, Rat, Dog, Horse
Predicted	Human, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	59977

Additional Information

Gene ID	64781
Alias Symbol	LK4, dA59H18.2, dA59H18.3, hCERK
Other Names	Ceramide kinase, hCERK, 2.7.1.138, Acylsphingosine kinase, Lipid kinase 4, LK4, CERK, KIAA1646
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 &mu, l of distilled water. Final Anti-CERK antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles.
Precautions	CERK Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

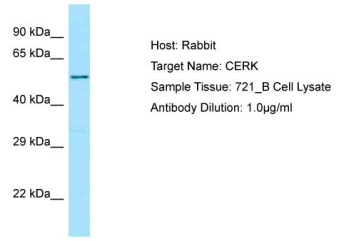
Name	CERK (HGNC:19256)
Synonyms	KIAA1646
Function	Catalyzes specifically the phosphorylation of ceramide to form ceramide 1-phosphate (PubMed:11956206, PubMed:16269826, PubMed:19168031). Acts efficiently on natural and analog ceramides (C6, C8, C16 ceramides, and C8-dihydroceramide), to a lesser extent on C2- ceramide and C6-dihydroceramide, but not on other lipids, such as various sphingosines (PubMed:11956206, PubMed:16269826, PubMed:17392267, PubMed:19168031). Shows a greater preference for D- erythro isomer of ceramides (PubMed:16269826). Binds phosphoinositides (PubMed:19168031).

Cellular Location	Cell membrane; Peripheral membrane protein; Cytoplasmic side. Golgi apparatus, trans-Golgi network
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

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).

Images



Host: Rabbit
Target Name: CERK
Sample Tissue: 721_B Whole cell lysate
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Antibody Dilution: 1.0µg/ml

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.