

PKC theta Recombinant Protein | PKCtheta recombinant protein

PKC theta, Active

CATALOG # AAA73874	HOST Sf9 insect cells	APPLICATIONS Western Blot
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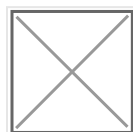
PRODUCT SYNONYMS

PKC theta; Active; PRKCQ; PRKCT; MGC126514; MGC141919; nPKC-theta; PKCtheta recombinant protein

PRODUCT SPECIFICATIONS

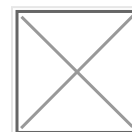
Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Applicable Applications for PKCtheta recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for PKCtheta recombinant protein	<p>Recombinant full-length human PKCtheta was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_006257.</p> <p>Protein Kinase C, theta (PKCtheta) is important component in the intracellular signaling cascade (1). Recent studies have suggested that local accumulation of fat metabolites inside skeletal muscle may activate a serine kinase cascade involving PKC-theta leading to defects in insulin signaling and glucose transport in skeletal muscle (2). Insulin resistance plays a primary role in the development of type 2 diabetes and may be related to alterations in fat metabolism. PKC-theta is a crucial component mediating fat-induced insulin resistance in skeletal muscle and is a potential therapeutic target for the treatment of type 2 diabetes (2).</p>
Product Categories/Family for PKCtheta recombinant protein	Protein Kinases ; Apoptosis/Autophagy ; Cardiovascular Disease ; ERK/MAPK Pathway ; Neurobiology ; NfκB Pathway ; PKA/PKC Pathway ; Ser/Thr Kinases
References	<p>1. Manicassamy, S. and Sun, Z. The critical role of protein kinase C-theta in Fas/Fas ligand-mediated apoptosis. J. Immunol. 2007;178(1):312-9.</p> <p>2. Kim, J K. et al: PKC-theta knockout mice are protected from fat-induced insulin resistance. J. Clin. Invest. 2004;114(6):823-7.</p>

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_006257
Molecular Weight	~110kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/pkc-theta-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/73874>