Recombinant Human MRCK alpha/CDC42BPA Kinase

Catalog No.: RP03342LQ

Sequence Information

Species
Human

Gene ID
8476

Swiss Prot
Q5VT25

Tags
N-GST

Synonyms
CDC42BPA; KIAA0451; MRCK alpha; DMPK-like alpha; Serine /threonine-protein kinase MRCK alpha

Product Information

Source
Baculovirus-Insect Cells

Purification
≥ 90 % as determined by SDS-PAGE;≥ 90 % as determined by HPLC.

Calculated MW
80.9 kDa

Observed MW
70-85 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Supplied as a 0.22 μm filtered solution in 50 mM Tris-HCl, 150 mM NaCl, 20% glycerol, 5 mM DTT, 0.1 M Trehalose. (pH 7.5). Contact us for customized product form or formulation.

Reconstitution
Please use running water to thaw it quickly.

Background

Serine/threonine-protein kinase MRCK alpha (MRCKα) encoded by the CDC42BPA gene contains multiple functional domains. Its kinase domain is highly similar to that of the myotonic dystrophy protein kinase (DMPK). MRCKα also contains a Rac interactive binding (CRIB) domain, and has been shown to bind CDC42. It may function as a CDC42 downstream effector mediating CDC42 induced peripheral actin formation, and promoting cytoskeletal reorganization.

Basic Information

Description
Recombinant Human MRCK alpha/CDC42BPA Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Ser2-Gln473) of Human CDC42BPA (Accession #Q5VT25) fused with a N-GST tag.

Activity
The activity of MRCKα is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃

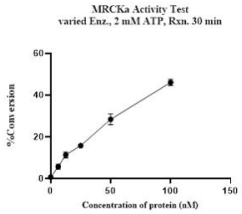
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

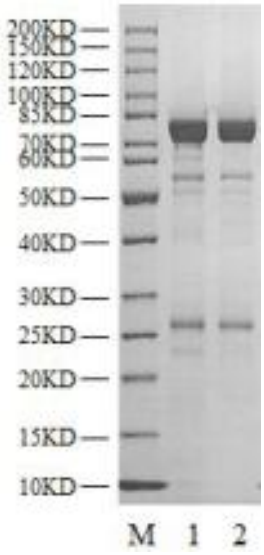
400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

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Validation Data



The activity of MRCKα is based on the MSA technology, and the content and ratio of the substrate and the product are directly separated and detected in real time and dynamically by the different migration rates of the substrate and the product after the enzymatic reaction.



Recombinant Human MRCK alpha/CDC42BPA Kinase was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.

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