

Recombinant Human CDC42BPA

Cat. No. CDC42BPA-26225TH **Lot. No.** (See product label)

SPECIFICATION

| | |
|----------------------------|--|
| Product Overview | Recombinant fragment corresponding to N terminal amino acids 1-473 of human CDC42 binding protein kinase alpha , with an N-terminal tag, MW 73kDa. Expressed in baculovirus in sf9 insect cells. |
| Species | Human |
| ProteinLength | 1-473 a.a. |
| Description | The protein encoded by this gene is a member of the Serine/Threonine protein kinase family. This kinase contains multiple functional domains. Its kinase domain is highly similar to that of the myotonic dystrophy protein kinase (DMPK). This kinase 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. Multiple alternatively spliced transcript variants have been described, and the full-length nature of two of them has been reported. |
| Tissue specificity | Abundant in the heart, brain, skeletal muscle, kidney, and pancreas, with little or no expression in the lung and liver. |
| Biological activity | Specific activity: 101nmol/min/mg. |
| Form | Liquid |
| Storage buffer | Preservative: None Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium |

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chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5

Storage

Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

Sequence

Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. DMPK subfamily. Contains 1 AGC-kinase C-terminal domain. Contains 1 CNH

Similarities

domain. Contains 1 CRIB domain. Contains 1 PH domain. Contains 1 phorbol-ester/DAG-type zinc finger. Contains 1

GENE INFORMATION

Gene Name

CDC42BPA CDC42 binding protein kinase alpha (DMPK-like) [Homo sapiens]

Official Symbol

CDC42BPA

Synonyms

CDC42BPA; CDC42 binding protein kinase alpha (DMPK-like); CDC42 binding protein kinase alpha (DMPK like); serine/threonine-protein kinase MRCK alpha; FLJ23347; KIAA0451; MRCK; MRCKA; PK428;

Gene ID

8476

mRNA Refseq

NM_003607

Protein Refseq

NP_003598

MIM

603412

Uniprot ID

Q5VT25

Chromosome

1q42.11

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Location

Pathway

CDC42 signaling events, organism-specific biosystem;

Function

ATP binding; identical protein binding; magnesium ion binding; nucleotide binding; protein binding;

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