

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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