

Active Recombinant Human CDC42BPA Protein, GST-Tagged

Cat. No. CDC42BPA-0938H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human CDC42BPA (NP_003598.2, 1 a.a. - 574 a.a.) partial recombinant protein with GST tag expressed in baculovirus infected Sf21 cells.
Species	Human
Source	Insect Cells
ProteinLength	1-574 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. [provided by RefSeq, Jul 2008]
Form	Liquid
Bio-activity	The activity was measured by off-chip mobility shift assay. The enzyme was incubated with fluorescence-labeled substrate and Mg(or Mn)/ATP. The phosphorylated and unphosphorylated substrates were separated and detected by LabChip 3000. Substrate: DAPK1tide. ATP: 100

 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

	μM.
Molecular Mass	93 kDa
Purity	97 % by SDS-PAGE/CBB staining
Applications	Functional Study SDS-PAGE
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	In 50 mM Tris-HCl, 150 mM NaCl, pH 7.5 (0.05% Brij35, 1 mM DTT, 10% glycerol)
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; myotonic dystrophy kinase related Cdc42 binding kinase; PK428; MRCK alpha; DMPK-like alpha; ser-thr protein kinase PK428; CDC42 binidng protein kinase beta; myotonic dystrophy protein kinase-like alpha; CDC42-binding protein kinase alpha (DMPK-like); myotonic dystrophy kinase-related CDC42-binding kinase alpha; myotonic dystrophy kinase-related CDC42-binding protein kinase alpha; ser-thr protein kinase related to the myotonic dystrophy protein kinase; DKFZp686L1738; DKFZp686P1738;
Gene ID	8476

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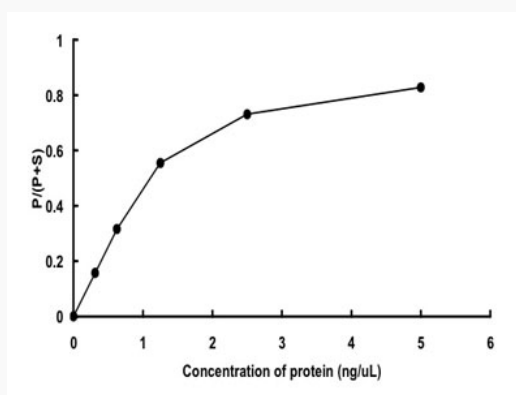
mRNA Refseq [NM_003607](#)

Protein Refseq [NP_003598](#)

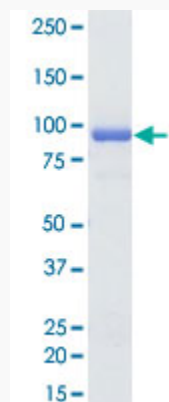
MIM [603412](#)

UniProt ID [Q5VT25](#)

Result of activity analysis



Quality Control Testing



Loading 1 µg protein in SDS-PAGE

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