

# Recombinant Human CDC42BPA Protein (S2-Q473), GST tagged

Cat. No. CDC42BPA-1179H Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Human GST-TEV-GG-MRCK $\alpha$ (S2-Q473) Protein was expressed in Insect cell.
<b>Species</b>	Human
<b>Source</b>	Insect Cells
<b>ProteinLength</b>	S2-Q473
<b>Description</b>	Serine/threonine-protein kinase which is an important downstream effector of CDC42 and plays a role in the regulation of cytoskeleton reorganization and cell migration. Regulates actin cytoskeletal reorganization via phosphorylation of PPP1R12C and MYL9/MLC2. In concert with MYO18A and LURAP1, is involved in modulating lamellar actomyosin retrograde flow that is crucial to cell protrusion and migration. Phosphorylates: PPP1R12A, LIMK1 and LIMK2. May play a role in TFRC-mediated iron uptake. In concert with FAM89B/LRAP25 mediates the targeting of LIMK1 to the lamellipodium resulting in its activation and subsequent phosphorylation of CFL1 which is important for lamellipodial F-actin regulation. Triggers the formation of an extrusion apical actin ring required for epithelial extrusion of apoptotic cells.
<b>Form</b>	Liquid
<b>Endotoxin</b>	< 0.01 EU per $\mu$ g of the protein

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

<b>Purity</b>	90%
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
<b>Storage</b>	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Storage Buffer</b>	Supplied as sterile 50mM Tris-HCl (pH 7.5), 200mM NaCl, 20% glycerol
<b>Shipping</b>	It is shipped out with blue ice.

## GENE INFORMATION

<b>Gene Name</b>	CDC42BPA CDC42 binding protein kinase alpha (DMPK-like) [ Homo sapiens (human) ]
<b>Official Symbol</b>	CDC42BPA
<b>Synonyms</b>	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 binding 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;
<b>Gene ID</b>	8476

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mRNA Refseq	NM_003607
Protein Refseq	NP_003598
MIM	603412
UniProt ID	Q5VT25

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