

## Recombinant Human CDC42EP3 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** CDC42EP3-4687H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Product Overview</b> | CDC42EP3 MS Standard C13 and N15-labeled recombinant protein (NP_006440) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | This gene encodes a member of a small family of guanosine triphosphate (GTP) metabolizing proteins that contain a CRIB (Cdc42, Rac interactive binding) domain. Members of this family of proteins act as effectors of CDC42 function. The encoded protein is involved in actin cytoskeleton re-organization during cell shape changes, including pseudopodia formation. A pseudogene of this gene is found on chromosome 19. Alternative splicing results in multiple transcript variants. |
| <b>Molecular Mass</b>   | 27.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>      | MPAKTPIYLKAANNKKGKKFKLRDILSPDMISPLGDFRHTIHIGKEGQHDVFGDISFL<br>QGNYELLPGNQEKAGHLGQFPGHNEFFRANSTSDSVFTETPSPVLKNAISLPTIGGSQ<br>ALMLPLLSPVTFNSKQESFGPAKLPRLSCEPVMEEKAQEKSSLLENGTVHQGDTSW<br>GSSGSASQSSQGRDSHSSSLSEQYPDWPAEDMFDHPTPCELIKGKTKSEESLSDLT<br>GSLLSLQLDLGPSLLDEVLVNMDKNKTRTRPLEQKLISEEDLAANDILDYKDDDDKV                                                                                                                                                                               |
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                                                                                                                                                                                                                                                                                                 |

 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

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|-----------------------|--------------------------------------------------------------------------------------------|
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                              |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                    |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                   |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CDC42EP3 CDC42 effector protein 3 [ Homo sapiens (human) ]                                                                                                                                                                                        |
| <b>Official Symbol</b> | CDC42EP3                                                                                                                                                                                                                                          |
| <b>Synonyms</b>        | CDC42EP3; CDC42 effector protein 3; UB1; CEP3; BORG2; cdc42 effector protein 3; CDC42 effector protein (Rho GTPase binding) 3; CRIB-containing BORG2 protein; MSE55-related Cdc42-binding protein; MSE55-related protein; binder of Rho GTPases 2 |
| <b>Gene ID</b>         | 10602                                                                                                                                                                                                                                             |
| <b>mRNA Refseq</b>     | NM_006449                                                                                                                                                                                                                                         |
| <b>Protein Refseq</b>  | NP_006440                                                                                                                                                                                                                                         |
| <b>MIM</b>             | 606133                                                                                                                                                                                                                                            |
| <b>UniProt ID</b>      | Q9UKI2                                                                                                                                                                                                                                            |

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