

## Recombinant Human DOCK6, His-tagged

Cat. No. DOCK6-12121H    Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview | Recombinant Human DOCK6 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.                                                                                                                                                                                                                                                                                                                                                                |
| Species          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Source           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| ProteinLength    | 1699-2041a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Description      | This gene encodes a member of the dedicator of cytokinesis (DOCK) family of atypical guanine nucleotide exchange factors. Guanine nucleotide exchange factors interact with small GTPases and are components of intracellular signaling networks. The encoded protein is a group C DOCK protein and plays a role in actin cytoskeletal reorganization by activating the Rho GTPases Cdc42 and Rac1. Mutations in this gene are associated with Adams-Oliver syndrome 2. |
| Storage          | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                                                                                                                                               |
| Storage Buffer   | 1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.                                                                                                                                                                                                                                                                                                    |

### GENE INFORMATION

|           |                                                   |
|-----------|---------------------------------------------------|
| Gene Name | DOCK6 dedicator of cytokinesis 6 [ Homo sapiens ] |
|-----------|---------------------------------------------------|

 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>Official Symbol</b>     | DOCK6                                                                                                                                                                                                                                                             |
| <b>Synonyms</b>            | dedicator of cytokinesis 6; Ensembl:ENSRNOG00000010652; dedicator of cytokinesis protein 6;                                                                                                                                                                       |
| <b>Gene ID</b>             | <a href="#">57572</a>                                                                                                                                                                                                                                             |
| <b>mRNA Refseq</b>         | <a href="#">NM_020812.3</a>                                                                                                                                                                                                                                       |
| <b>Protein Refseq</b>      | <a href="#">NP_065863.2</a>                                                                                                                                                                                                                                       |
| <b>MIM</b>                 | <a href="#">614194</a>                                                                                                                                                                                                                                            |
| <b>UniProt ID</b>          | <a href="#">B7Z9U8</a>                                                                                                                                                                                                                                            |
| <b>Chromosome Location</b> | 19p13.2                                                                                                                                                                                                                                                           |
| <b>Pathway</b>             | Factors involved in megakaryocyte development and platelet production, organism-specific biosystem; Hemostasis, organism-specific biosystem; Regulation of CDC42 activity, organism-specific biosystem; Regulation of RAC1 activity, organism-specific biosystem; |
| <b>Function</b>            | GTP binding; GTPase binding; guanyl-nucleotide exchange factor activity;                                                                                                                                                                                          |

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