

# Recombinant Human CAP1, His-tagged

**Cat. No.** CAP1-10696H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human CAP1 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | 125-475a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | The protein encoded by this gene belongs to the CDK subfamily of the Ser/Thr protein kinase family. The CDK subfamily members are highly similar to the gene products of <i>S. cerevisiae</i> cdc28, and <i>S. pombe</i> cdc2, and are known to be essential for cell cycle progression. This kinase has been shown to play a role in cellular proliferation and its function is limited to cell cycle G2-M phase. Multiple transcript variants encoding different isoforms have been found for this gene. |
| <b>Storage</b>          | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage Buffer</b>   | 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

|                  |                                                                           |
|------------------|---------------------------------------------------------------------------|
| <b>Gene Name</b> | CAP1 CAP, adenylate cyclase-associated protein 1 (yeast) [ 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>     | CAP1                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Synonyms</b>            | CAP1; CAP, adenylate cyclase-associated protein 1 (yeast); adenylyl cyclase-associated protein 1; CAP; CAP 1; CAP1-PEN;                                                                                                                                                                                                                                                                                            |
| <b>Gene ID</b>             | 10487                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>mRNA Refseq</b>         | NM_001105530                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Protein Refseq</b>      | NP_001099000                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>UniProt ID</b>          | Q01518                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Chromosome Location</b> | 1p34.3                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Pathway</b>             | Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Hemostasis, organism-specific biosystem; Insulin Signaling, organism-specific biosystem; Platelet activation, signaling and aggregation, organism-specific biosystem; Platelet degranulation, organism-specific biosystem; Response to elevated platelet cytosolic Ca <sup>2+</sup> , organism-specific biosystem; |
| <b>Function</b>            | actin binding; binding;                                                                                                                                                                                                                                                                                                                                                                                            |

 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