

## Recombinant Human CCDC70, His-tagged

**Cat. No.** CCDC70-10814H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                           |
|-------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human CCDC70 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose. |
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| <b>Species</b> | Human |
|----------------|-------|

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|---------------|--------|
| <b>Source</b> | E.coli |
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| <b>ProteinLength</b> | 1-233a.a. |
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#### Description

The protein encoded by this gene is the beta subunit of a heterodimeric core-binding transcription factor belonging to the PEBP2/CBF transcription factor family which master-regulates a host of genes specific to hematopoiesis (e.g., RUNX1) and osteogenesis (e.g., RUNX2). The beta subunit is a non-DNA binding regulatory subunit; it allosterically enhances DNA binding by alpha subunit as the complex binds to the core site of various enhancers and promoters, including murine leukemia virus, polyomavirus enhancer, T-cell receptor enhancers and GM-CSF promoters. Alternative splicing generates two mRNA variants, each encoding a distinct carboxyl terminus. In some cases, a pericentric inversion of chromosome 16 [inv(16)(p13q22)] produces a chimeric transcript consisting of the N terminus of core-binding factor beta in a fusion with the C-terminal portion of the smooth muscle myosin heavy chain 11. This chromosomal rearrangement is associated with acute myeloid leukemia of the M4Eo subtype. Two transcript variants encoding different isoforms have been found for this gene.

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| <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. |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                       |
| <b>Gene Name</b>           | CCDC70 coiled-coil domain containing 70 [ Homo sapiens ]                                                                                                              |
| <b>Official Symbol</b>     | CCDC70                                                                                                                                                                |
| <b>Synonyms</b>            | CCDC70; coiled-coil domain containing 70; coiled-coil domain-containing protein 70; DKFZP434K1172; FLJ25853; DKFZp434K1172;                                           |
| <b>Gene ID</b>             | 83446                                                                                                                                                                 |
| <b>mRNA Refseq</b>         | NM_031290                                                                                                                                                             |
| <b>Protein Refseq</b>      | NP_112580                                                                                                                                                             |
| <b>UniProt ID</b>          | Q6NSX1                                                                                                                                                                |
| <b>Chromosome Location</b> | 13q14.3                                                                                                                                                               |