

Recombinant Human CCDC70, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human CCDC70 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-233a.a.
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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Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.
GENE INFORMATION	
Gene Name	CCDC70 coiled-coil domain containing 70 [Homo sapiens]
Official Symbol	CCDC70
Synonyms	CCDC70; coiled-coil domain containing 70; coiled-coil domain-containing protein 70; DKFZP434K1172; FLJ25853; DKFZp434K1172;
Gene ID	83446
mRNA Refseq	NM_031290
Protein Refseq	NP_112580
UniProt ID	Q6NSX1
Chromosome Location	13q14.3

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