

# Human CBFB Knockdown Cell Lysate

**Cat. No.** CBFB-090HKCL    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**      WB-validated CBFB Knockdown HeLa Cell Lysate

**Species**                      Human

**Source**                        HeLa

**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.

**Form**                            Cell-Tissue Lysis buffer

**Molecular Mass**            22 kDa

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<b>Notes</b>	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and equal amount of total proteins.
<b>Storage</b>	Store at -20 centigrade for two years.
<b>Concentration</b>	Lot-specific
<b>Shipping</b>	Blue Ice
<b>Components</b>	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg CBFB KD HeLa cell lysate
<b>Protein Families</b>	Druggable Genome, Transcription Factors
<b>Lysate QC</b>	RT-qPCR; Western Blotting (WB)

## GENE INFORMATION

<b>Gene Name</b>	CBFB core-binding factor, beta subunit [ Homo sapiens (human) ]
<b>Official Symbol</b>	CBFB
<b>Synonyms</b>	CBFB; core-binding factor, beta subunit; core-binding factor subunit beta; PEBP2B; CBF-beta; PEA2-beta; PEBP2-beta; SL3-3 enhancer factor 1 beta subunit; SL3-3 enhancer factor 1 subunit beta; SL3/AKV core-binding factor beta subunit; polyomavirus enhancer-binding protein 2 beta subunit; polyomavirus enhancer binding protein 2, beta subunit;
<b>Gene ID</b>	865

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<b>mRNA Refseq</b>	NM_001755
<b>Protein Refseq</b>	NP_001746
<b>MIM</b>	121360
<b>UniProt ID</b>	Q13951

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