

Recombinant Human CBFA2T2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CBFA2T2-5030H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CBFA2T2 MS Standard C13 and N15-labeled recombinant protein (NP_001034798) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	In acute myeloid leukemia, especially in the M2 subtype, the t(8;21)(q22;q22) translocation is one of the most frequent karyotypic abnormalities. The translocation produces a chimeric gene made up of the 5'-region of the RUNX1 (AML1) gene fused to the 3'-region of the CBFA2T1 (MTG8) gene. The chimeric protein is thought to associate with the nuclear corepressor/histone deacetylase complex to block hematopoietic differentiation. The protein encoded by this gene binds to the AML1-MTG8 complex and may be important in promoting leukemogenesis. Several transcript variants are thought to exist for this gene, but the full-length natures of only three have been described.
Molecular Mass	68 kDa
AA Sequence	MGFHHVGQARLELLTSGDLPALASQRAGITVGPEKRV PAMPGSPVEVKIQSRSSPP TMPPLPPINPGGPRPV SFTPTALSNGINHSPPTLNGAPSP PQRF SNGPASSTSSALT NQQLPATCGARQLSKLKRFLTTLQQFGNDISPEIGEKVRTLV LALVNSTVTIEEFHCK LQEATNFPLRPFVIPFLKANLPLLQRELLHCARAAKQTPSQYLAQHEHLLNNTSIASPA

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DSSELLMEVHGNGKRPSPERREENSFDRDTIAPEPPAKRVCTISPAPRHSPALTVPL
MNPGGQFHPTPPPLQHYLTLEDIATSHLYREPKNMLEHREVRDRHHSGLNGGYQD
ELVDHRLTEREWADEWKHLDHALNCIMEMVEKTRRSMAVLRRQCESDREELNYWK
RRYNENTELRKTGTTELVSQRHSPGSADSLNDSQREFNSRPGTGYVPVEFWKKTE
EAVNKVKIQAMSEVQKAVAEAEQKAFEVIATERARMEQTIADVQRQAAEDAFLVINE
QEESTENCWNCGRKASETCSGCNIARYCGSFCQHKDWERHHRLCGQNLHGQSPH
GQGRPLLPGRGSSARSADCSVPSPALDKTSATTSSRSSTPASVTAIDTNGLTRTRPL
EQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name CBFA2T2 CBFA2/RUNX1 partner transcriptional co-repressor 2 [Homo sapiens (human)]

Official Symbol CBFA2T2

Synonyms CBFA2T2; core-binding factor, runt domain, alpha subunit 2; translocated to, 2; protein CBFA2T2; MTGR1; ZMYND3; MTG8-like protein; MTG8-related protein 1; ETO homolog on chromosome 20; ETO homologous on chromosome 20; myeloid translocation-related protein 1; myeloid translocation gene-related protein 1; EHT;

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p85; DKFZp313F2116;

Gene ID 9139

mRNA Refseq NM_001039709

Protein Refseq NP_001034798

MIM 603672

UniProt ID O43439

SDS-PAGE

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