

Recombinant Human CBX1, His-tagged

Cat. No. CBX1-3580H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CBX1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (1-185 aa).
Species	Human
Source	E.coli
Description	CBX1 is a member of the heterochromatin protein family and enriched in the heterochromatin and associated with centromeres. It recognizes and binds histone H3 tails methylated at "Lys-9", leading to epigenetic repression. Interaction with lamin B receptor (LBR) can contribute to the association of the heterochromatin with the inner nuclear membrane. This protein may play an important role in the epigenetic control of chromatin structure and gene expression.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 2mM DTT, 0.1M NaCl.
Molecular Weight	23.6 kDa (205aa), confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)
Purity	> 85 % by SDS - PAGE
Concentration	1 mg/ml (determined by Bradford assay)
Sequences of amino	MGSSHHHHHH SSGLVPRGSH MGKKQNKKKV EEVLEEEEEEE YVVEKVLDRR

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acids

VVKGKVEYLL KWKGFSDEDN TWEPEENLDC PDLIAEFLQS QKTAHETDKS
 EGGKRKADSD SEDKGEESKP KKKKEESEKP RGFARGLEPE RIIGATDSSG
 ELMFLMKWKN SDEADLVPK EANKVCPQVV ISFYEERLTW HSYPSEDDDK
 KDDKN

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name CBX1 chromobox homolog 1 [Homo sapiens]

Official Symbol CBX1

Synonyms

CBX1; CBX; M31; MOD1; p25beta; HP1-BETA; HP1Hsbeta; HP1Hs-beta; chromobox homolog 1; chromobox protein homolog 1; HP1 beta homolog;
 OTTHUMP00000197313; OTTHUMP00000197314; OTTHUMP00000197316;
 modifier 1 protein; heterochromatin protein 1-beta; heterochromatin protein p25 beta;
 heterochromatin protein 1 homolog beta; chromobox homolog 1 (HP1 beta homolog Drosophila); chromobox homolog 1 (Drosophila HP1 beta); HP1 beta homolog (Drosophila); Chromobox protein homolog 1; Heterochromatin protein 1 homolog beta; HP1 beta; Heterochromatin protein p25; Modifier 1 protein;
 OTTHUMP00000197315

Gene ID 10951

mRNA Refseq NM_001127228

Protein Refseq NP_001120700

MIM 604511

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UniProt ID	P83916
Chromosome Location	17q21.32
Function	chromatin binding; enzyme binding; protein binding; transcription repressor activity
PDBrendering based on 1ap0.	