

Recombinant Human CBX5, His-tagged

Cat. No. CBX5-27763TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, corresponding to amino acids 1-191 of Human HP1 alpha with N terminal His tag, Predicted MWt 23 kDa.
Species	Human
Source	E.coli
ProteinLength	1-191 a.a.
Description	This gene encodes a highly conserved nonhistone protein, which is a member of the heterochromatin protein family. The protein is enriched in the heterochromatin and associated with centromeres. The protein has a single N-terminal chromodomain which can bind to histone proteins via methylated lysine residues, and a C-terminal chromo shadow-domain (CSD) which is responsible for the homodimerization and interaction with a number of chromatin-associated nonhistone proteins. The encoded product is involved in the formation of functional kinetochore through interaction with essential kinetochore proteins. The gene has a pseudogene located on chromosome 3. Multiple alternatively spliced variants, encoding the same protein, have been identified.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 163 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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	phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MGKKTkRTADSSSSSEDEEEYVVEKVLDRRVVKGQVEYLLK WKGfSEEhNTWEPEK NLDCPELISEFMKKYKKMKEGEN NKPREKSESnkRKSnfSNSADDIKSKKKREQSN DIARG FERGLEPEKIIGATDSCGDLmFLMKWKDTDEADLVlak EANVKCPQIVIAFY EERLTWHAYPEDAENKEKETAKS
Sequence Similarities	Contains 2 chromo domains.
Full Length	Full L.

GENE INFORMATION

Gene Name	CBX5 chromobox homolog 5 [Homo sapiens]
Official Symbol	CBX5
Synonyms	CBX5; chromobox homolog 5; chromobox homolog 5 (Drosophila HP1 alpha) , chromobox homolog 5 (HP1 alpha homolog, Drosophila); chromobox protein homolog 5; HP1; HP1 alpha homolog (Drosophila); HP1 ALPHA; HP1Hs alpha;
Gene ID	23468
mRNA Refseq	NM_001127321
Protein Refseq	NP_001120793
MIM	604478

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Uniprot ID	P45973
Chromosome Location	12q13.13
Pathway	Aurora B signaling, organism-specific biosystem; E2F transcription factor network, organism-specific biosystem; Factors involved in megakaryocyte development and platelet production, organism-specific biosystem; Hemostasis, organism-specific biosystem;
Function	chromatin binding; enzyme binding; histone deacetylase binding; methylated histone residue binding; protein binding;

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