

Recombinant Human CBX3

Cat. No. CBX3-27362TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human HP1 gamma protein, expressed in <i>Saccharomyces cerevisiae</i> . 183 amino acids, MW 20.7 kDa,
Species	Human
Description	At the nuclear envelope, the nuclear lamina and heterochromatin are adjacent to the inner nuclear membrane. The protein encoded by this gene binds DNA and is a component of heterochromatin. This protein also can bind lamin B receptor, an integral membrane protein found in the inner nuclear membrane. The dual binding functions of the encoded protein may explain the association of heterochromatin with the inner nuclear membrane. This protein binds histone H3 tails methylated at Lys-9 sites. This protein is also recruited to sites of ultraviolet-induced DNA damage and double-strand breaks. Two transcript variants encoding the same protein but differing in the 5' UTR, have been found for this gene.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 30% Glycerol, 0.5% Triton-X-100, 50mM HEPES, 30mM Glutathione, 100mM Sodium chloride, 1mM DTT, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequences of amino	MASNKTTLQKMGKKQNGKSKKVEEAEPEEFVVEKVLDRRV VNGKVEYFLKWKGFT

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acids	DADNTWEPEENLDCPELIEAFLN SQKAGKEKDGTKRKSLSDSESDDSKSKKKRDAA DKPRG FARGLDPERIIGATDSSGELMFLMKWKDSDEADLVLAK EANMKCPQIVIAF YEERLTWHSCPEDEAQ
Sequence Similarities	Contains 2 chromo domains.
Full Length	Full L.
GENE INFORMATION	
Gene Name	CBX3 chromobox homolog 3 [Homo sapiens]
Official Symbol	CBX3
Synonyms	CBX3; chromobox homolog 3; chromobox homolog 3 (Drosophila HP1 gamma); chromobox protein homolog 3; HP1 gamma homolog (Drosophila); HP1Hs gamma;
Gene ID	11335
mRNA Refseq	NM_007276
Protein Refseq	NP_009207
MIM	604477
Uniprot ID	Q13185
Chromosome Location	7p15.2
Pathway	Diurnally regulated genes with circadian orthologs, organism-specific biosystem; RNA

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Polymerase I Chain Elongation, organism-specific biosystem; RNA Polymerase I Transcription, organism-specific biosystem; RNA Polymerase I, RNA Polymerase III, and Mitochondrial Transcription, organism-specific biosystem; Transcription, organism-specific biosystem;

Function

enzyme binding; identical protein binding; protein binding; protein domain specific binding;

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