

Recombinant human CBX3 protein

Catalog Number: ATGP1456

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-183aa

UniProt No.

Q13185

NCBI Accession No.

NP_057671

Alternative Names

Chromobox protein homolog 3, HECH, HP1-GAMMA, HP1Hs-gamma

PRODUCT SPECIFICATION

Molecular Weight

23.4 kDa (207aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

CBX3, also known as chromobox protein homolog 3, seems to be involved in transcriptional silencing in heterochromatin-like complexes. This protein recognizes and binds histone H3 tails methylated at 'Lys-9', leading to epigenetic repression. It involved in the formation of functional kinetochore through interaction with MIS12 complex proteins. Recombinant human CBX3 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSH>MASNKT TLQKMGKKQN GSKKKVEEAE PEEFVVEKVL DRRVVNGKVE
YFLKWKGFTD ADNTWEPEEN LDCPELIEAF LNSQKAGKEK DGTKRKSLSD SESDDSKSKK KRDAADKPRG FARGLDPERI
IGATDSSGEL MFLMKWKDSD EADLVLAKEA NMKCPQIVIA FYEERLTWHS CPEDEAQ

General References

Koike N., et al. (2000) FEBS Lett. 467:17-21
Lachner M., et al. (2001) Nature. 410:116-120

DATA

SDS-PAGE

3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

