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Recombinant human CBX5 protein

Catalog Number: ATGP1461

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-191aa

UniProt No.
P45973

NCBI Accession No.
NP_001120794

Alternative Names
Chromobox homolog 5, HP1, HP1A

PRODUCT SPECIFICATION

Molecular Weight
24.8 kDa (215aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 0.1M NaCl

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
Chromobox homolog 5, also known as CBX5, is a member of the heterochromatin protein family. The protein is enriched in the heterochromatin and associated with centromeres. CBX5 is involved in the formation of functional kinetochore through interaction with essential kinetochore proteins. It has a pseudogene located on chromosome 3. Also, The CBX5 proteins reassociate with chromatin at the end of mitosis, as Histone H3 is dephosphorylated. Recombinant human CBX5 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

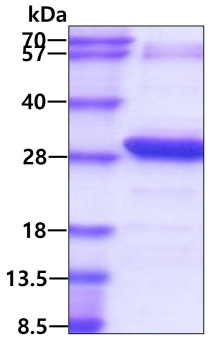
<MGSSHHHHHH SSGLVPRGSH MGSH>MGKKTK RTADSSSSED EEEYVVEKVL DRRVVKGQVE YLLKWKGFSE EHNTWEPEKN LDCPELISEF MKKYKKMKEG ENNKPREKSE SNKRKSNFSN SADDIKSKKK REQSNDIARG FERGLEPEKI IGATDSCGDL MFLMKWKDTD EADLVLAKEA NVKCPQIVIA FYEERLTWHA YPEDAENKEK ETAKS

General References

Koike N., et al. (2000) FEBS Lett. 467:17-21.
Verreault A., et al. (1996) Cell. 87:95-104

DATA

SDS-PAGE



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