

## AR50281PU-S

## Human CBX3 (1-183, His-tag) - Purified

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| <b>Alternate names:</b>  | Chromobox protein homolog 3, HECH, HP1 gamma, HP1-gamma, HP1Hs-gamma, Heterochromatin protein 1 homolog gamma, Modifier 2 protein                                                                                                                                                                                                                                                                                                                                                    |
| <b>Quantity:</b>         | 0.1 mg                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Concentration:</b>    | 1 mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Background:</b>       | 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.                                                                                                                            |
| <b>Uniprot ID:</b>       | <a href="#">Q13185</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>NCBI:</b>             | <a href="#">NP_057671</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>GeneID:</b>           | <a href="#">11335</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species:</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source:</b>           | E. coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Format:</b>           | <b>State:</b> Liquid purified protein<br><b>Purity:</b> >90% by SDS - PAGE<br><b>Buffer System:</b> 20 mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT                                                                                                                                                                                                                                                                                                        |
| <b>Description:</b>      | Recombinant human CBX3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.<br><b>AA Sequence:</b><br>MGSSHHHHH SSGLVPRGSH MGSHTASNKT TLQKMGKKQN GKSKKVEEAE PEEFVVEKVL<br>DRRVVNGKVE YFLKWGFTD ADNTWEPEEN LDCPELIEAF LNSQKAGKEK DGTKRKSLSD<br>SESDDSKSKK KRDAADKPRG FARGLDPERI IGATDSSGEL MFLMKWKDSD EADLVLAKEA<br>NMKCPQIVIA FYEERLTWHS CPEDEAQ<br><b>Molecular weight:</b> 23.4 kDa (207aa), confirmed by MALDI-TOF |
| <b>Storage:</b>          | Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.<br>Avoid repeated freezing and thawing.<br>Shelf life: one year from despatch.                                                                                                                                                                                                                                                                                                                  |
| <b>General Readings:</b> | Koike N., et al. (2000) FEBS Lett. 467:17-21 Lachner M., et al. (2001) Nature. 410:116-120                                                                                                                                                                                                                                                                                                                                                                                           |

Pictures:

