

Datasheet for ABIN7562493  
**CBX4 Protein (AA 1-551) (His tag)**



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## Overview

Quantity:	1 mg
Target:	CBX4
Protein Characteristics:	AA 1-551
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CBX4 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Cbx4 Protein expressed in mammalian cells.
Sequence:	MELPAVGEHV FAVESIEKKR IRKGRVEYLV KWRGWSPKYN TWEPEENILD PRLLI AFQNR ERQEQLMGYR KRGP KPPLV VQVPTFARRS NVLTGLQDSS ADNRAKLELG TQKGQGHQY ELNSKHHHGY QPHSKERSGK PPPPGKSGKY YYQLNSKHHH PYQDPKMYD LQYQGGHKEA PSPTCPDLGT KSHPPDKWAH GAAAKGYLGA VKPLGGGAGA PGKGSEKGPP NGMTPAPKEA VTGNGIGGKM KIVKNKNKNG RIVIVMSKYM ENGMQAVKIK SGEEAEGEAR SPSHKKRAAE ERHPQGDRTF KKAAGASEEK KAEVPCRRRE EEALVSGDAQ PQDLGSRKLS PTKEAFGEQP LQLTTKPDLL AWDPARSSHP PAHHHHHHHHH HHHHHTVGLN LSHARKRCLS ETHGEREPCK KRLTARSIST PTCLGGSPVS EHPANVSPTA ASLPQPEVIL LDSDLDEPID LRCVKMRSDA GEPSTLQVK PEAPAAVAVV APAPASEKPP AEAQEPEVPEP LSEFKPFFGN IIITDVTANC LTVTFKEYVT V <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b>

## Product Details

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**Specificity:** If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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**Characteristics:** **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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**Purity:** > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

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**Grade:** custom-made

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## Target Details

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**Target:** CBX4

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**Alternative Name:** Cbx4 ([CBX4 Products](#))

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**Background:** E3 SUMO-protein ligase CBX4 (EC 2.3.2.-) (Chromobox protein homolog 4) (E3 SUMO-protein transferase CBX4) (Polycomb 2 homolog) (Pc2) (mPc2),FUNCTION: E3 SUMO-protein ligase which facilitates SUMO1 conjugation by UBE2I. Involved in the sumoylation of HNRNPK, a p53/TP53 transcriptional coactivator, hence indirectly regulates p53/TP53 transcriptional activation resulting in p21/CDKN1A expression. {ECO:0000250|UniProtKB:O00257}.,  
FUNCTION: Component of a Polycomb group (PcG) multiprotein PRC1-like complex, a complex class required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development (By similarity). PcG PRC1 complex acts via chromatin remodeling and modification of histones, it mediates monoubiquitination of histone H2A 'Lys-119', rendering chromatin heritably changed in its expressibility (By similarity). Binds to histone H3 trimethylated at 'Lys-9' (H3K9me3) (PubMed:16537902). Plays a role in the lineage

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## Target Details

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differentiation of the germ layers in embryonic development (PubMed:22226355).  
{ECO:0000250|UniProtKB:O00257, ECO:0000269|PubMed:16537902,  
ECO:0000269|PubMed:22226355}.

Molecular Weight: 60.5 kDa

UniProt: [O55187](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months