10320 Camino Santa Fe, Suite G
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CBX4 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP17028a

Specification

CBX4 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession O00257

CBX4 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 8535

Other Names
E3 SUMO-protein ligase CBX4, 632-, Chromobox protein homolog 4, Polycomb 2 homolog, Pc2, hPc2, CBX4

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CBX4 Antibody (N-term) Blocking Peptide - Protein Information

Name CBX4

Function
E3 SUMO-protein ligase which facilitates SUMO1 conjugation by UBE2I (PubMed:12679040). Involved in the sumoylation of HNRNPK, a p53/TP53 transcriptional coactivator, hence indirectly regulates p53/TP53 transcriptional activation resulting in p21/CDKN1A expression. Monosumoylates ZNF131 (PubMed:22825850).

Cellular Location
Nucleus. Nucleus speckle. Note=Localization to nuclear polycomb bodies is required for ZNF131 sumoylation (PubMed:22467880). Localized in distinct foci on chromatin (PubMed:18927235)

Tissue Location
Ubiquitous.

CBX4 Antibody (N-term) Blocking Peptide - Protocols

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Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

CBX4 Antibody (N-term) Blocking Peptide - Images

CBX4 Antibody (N-term) Blocking Peptide - Background

E3 SUMO-protein ligase which facilitates SUMO1 conjugation by UBE2I. Component of the Polycomb group (PcG) multiprotein PRC1 complex, a complex required to maintain the transcriptionally repressive state of many genes, including Hox genes, throughout development. 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.

CBX4 Antibody (N-term) Blocking Peptide - References

Seong, I.S., et al. Hum. Mol. Genet. 19(4):573-583(2010)Zhou, W., et al. BMB Rep 42(3):154-159(2009)Liang, G., et al. Hum. Mol. Genet. 17(8):1109-1119(2008)Kim, S.H., et al. Int. J. Biochem. Cell Biol. 40(11):2462-2471(2008)Kabil, O., et al. Biochemistry 45(45):13528-13536(2006)