

CBX2 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP17146c**Specification**

CBX2 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q14781](#)**CBX2 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 84733**Other Names**

Chromobox protein homolog 2, CBX2

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.

CBX2 Antibody (Center) Blocking Peptide - Protein Information**Name** CBX2**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 (PubMed:21282530). 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 (PubMed:21282530). Binds to histone H3 trimethylated at 'Lys-9' (H3K9me3) or at 'Lys-27' (H3K27me3) (By similarity). Plays a role in the lineage differentiation of the germ layers in embryonic development (By similarity). Involved in sexual development, acting as activator of NR5A1 expression (PubMed:19361780).

Cellular Location

Nucleus. Chromosome Note=Localized in distinct foci on chromatin and in chromocenters
Localizes to the inactive X chromosome. Seems to be recruited to H3K27me3, H3K9ac and H3K3me2 sites on chromatin

CBX2 Antibody (Center) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

CBX2 Antibody (Center) Blocking Peptide - Images

CBX2 Antibody (Center) Blocking Peptide - Background

This gene encodes a component of the polycomb multiprotein complex, which is required to maintain the transcriptionally repressive state of many genes throughout development via chromatin remodeling and modification of histones. Disruption of this gene in mice results in male-to-female gonadal sex reversal. Mutations in this gene are also associated with gonadal dysgenesis in humans. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene.

CBX2 Antibody (Center) Blocking Peptide - References

Biason-Lauber, A., et al. Am. J. Hum. Genet. 84(5):658-663(2009) Venkatesan, K., et al. Nat. Methods 6(1):83-90(2009) Agrawal, N., et al. PLoS ONE 3 (12), E4032 (2008) :Garcia, E., et al. EMBO J. 18(12):3404-3418(1999) Katoh-Fukui, Y., et al. Nature 393(6686):688-692(1998)