

CBX3 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP13718c**Specification**

CBX3 Antibody (Center) Blocking peptide - Product InformationPrimary Accession [Q13185](#)**CBX3 Antibody (Center) Blocking peptide - Additional Information****Gene ID** 11335**Other Names**

Chromobox protein homolog 3, HECH, Heterochromatin protein 1 homolog gamma, HP1 gamma, Modifier 2 protein, CBX3

Target/Specificity

The synthetic peptide sequence used to generate the antibody AP13718c was selected from the Center region of CBX3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

CBX3 Antibody (Center) Blocking peptide - Protein Information**Name** CBX3**Function**

Seems to be involved in transcriptional silencing in heterochromatin-like complexes. Recognizes and binds histone H3 tails methylated at 'Lys-9', leading to epigenetic repression. May contribute to the association of the heterochromatin with the inner nuclear membrane through its interaction with lamin B receptor (LBR). Involved in the formation of functional kinetochore through interaction with MIS12 complex proteins. Contributes to the conversion of local chromatin to a heterochromatin-like repressive state through H3 'Lys-9' trimethylation, mediates the recruitment of the methyltransferases SUV39H1 and/or SUV39H2 by the PER complex to the E-box elements of the circadian target genes such as PER2 itself or PER1. Mediates the recruitment of NIPBL to sites of DNA damage at double-strand breaks (DSBs) (PubMed:28167679).

Cellular Location

Nucleus. Note=Associates with euchromatin and is largely excluded from constitutive heterochromatin. May be associated with microtubules and mitotic poles during mitosis (Potential).

CBX3 Antibody (Center) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

CBX3 Antibody (Center) Blocking peptide - Images

CBX3 Antibody (Center) Blocking peptide - Background

At the nuclear envelope, the nuclear lamina and heterochromatin are adjacent to the inner nuclear membrane. The protein encoded by this gene binds DNA and is a component of heterochromatin. This protein also can bind lamin B receptor, an integral membrane protein found in the inner nuclear membrane. The dual binding functions of the encoded protein may explain the association of heterochromatin with the inner nuclear membrane. Two transcript variants encoding the same protein but differing in the 5' UTR, have been found for this gene.

CBX3 Antibody (Center) Blocking peptide - References

Higo, S., et al. J. Biol. Chem. 285(41):31337-31347(2010) Souza, P.P., et al. BMC Cell Biol. 10, 41 (2009) :Malyavantham, K.S., et al. J. Cell. Biochem. 105(2):391-403(2008) Eguchi, T., et al. Mol. Cell. Biol. 28(7):2391-2413(2008) Mateescu, B., et al. EMBO Rep. 9(3):267-272(2008)