

Mouse Cbx5 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP19229b**Specification**

Mouse Cbx5 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q61686](#)**Mouse Cbx5 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 12419**Other Names**

Chromobox protein homolog 5, Heterochromatin protein 1 homolog alpha, HP1 alpha, Cbx5, Hp1a

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.

Mouse Cbx5 Antibody (C-term) Blocking Peptide - Protein Information**Name** Cbx5**Synonyms** Hp1a**Function**

Component of heterochromatin that recognizes and binds histone H3 tails methylated at 'Lys-9' (H3K9me), leading to epigenetic repression. In contrast, it is excluded from chromatin when 'Tyr-41' of histone H3 is phosphorylated (H3Y41ph) (By similarity). May contribute to the association of heterochromatin with the inner nuclear membrane by interactions with the lamin-B receptor (LBR) (By similarity). Involved in the formation of kinetochore through interaction with the MIS12 complex subunit NSL1 (By similarity). Required for the formation of the inner centromere (By similarity).

Cellular Location

Nucleus {ECO:0000250|UniProtKB:P45973}. Chromosome {ECO:0000250|UniProtKB:P45973}. Chromosome, centromere {ECO:0000250|UniProtKB:P45973}. Note=Colocalizes with HNRNPU in the nucleus (By similarity). Component of centromeric and pericentromeric heterochromatin. Associates with chromosomes during mitosis. Associates specifically with chromatin during metaphase and anaphase. Localizes to sites of DNA damage. {ECO:0000250|UniProtKB:P45973}

Mouse Cbx5 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

Mouse Cbx5 Antibody (C-term) Blocking Peptide - Images

Mouse Cbx5 Antibody (C-term) Blocking Peptide - Background

Component of heterochromatin that recognizes and binds histone H3 tails methylated at 'Lys-9' (H3K9me), leading to epigenetic repression. In contrast, it is excluded from chromatin when 'Tyr-41' of histone H3 is phosphorylated (H3Y41ph). Can interact with lamin-B receptor (LBR). This interaction can contribute to the association of the heterochromatin with the inner nuclear membrane. Involved in the formation of functional kinetochore through interaction with MIS12 complex proteins (By similarity).

Mouse Cbx5 Antibody (C-term) Blocking Peptide - References

Sun, Y., et al. Biophys. J. 99(4):1274-1283(2010)Muller, K.P., et al. Biophys. J. 97(11):2876-2885(2009)Dong, K.B., et al. EMBO J. 27(20):2691-2701(2008)Villeneuve, L.M., et al. Proc. Natl. Acad. Sci. U.S.A. 105(26):9047-9052(2008)Brancorsini, S., et al. Cell Cycle 7(10):1415-1422(2008)