

# Mouse Cbx5 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP19229b

## **Product Information**

**Application** WB, E **Primary Accession** Q61686

Other Accession <u>P45973</u>, <u>NP 001070257.1</u>

Reactivity Mouse **Predicted** Human Host Rabbit Clonality Polyclonal Isotype Rabbit IgG RB40179 **Clone Names Calculated MW** 22186 160-186 **Antigen Region** 

# **Additional Information**

**Gene ID** 12419

Other Names Chromobox protein homolog 5, Heterochromatin protein 1 homolog alpha,

HP1 alpha, Cbx5, Hp1a

Target/Specificity This Mouse Cbx5 antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 160-186 amino acids from the

C-terminal region of mouse Cbx5.

**Dilution** WB~~1:1000 E~~Use at an assay dependent concentration.

**Format** Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is purified through a protein A column, followed by peptide

affinity purification.

**Storage** Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions** Mouse Cbx5 Antibody (C-term) is for research use only and not for use in

diagnostic or therapeutic procedures.

# **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}

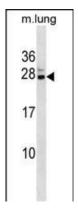
# **Background**

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).

## 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)

# **Images**



Mouse Cbx5 Antibody (C-term) (Cat. #AP19229b) western blot analysis in mouse lung tissue lysates (35ug/lane). This demonstrates the Cbx5 antibody detected the Cbx5 protein (arrow).

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