

CBX5 / HP1 Alpha Antibody (Internal)
Goat Polyclonal Antibody
Catalog # ALS12244

Specification

CBX5 / HP1 Alpha Antibody (Internal) - Product Information

Application	IHC
Primary Accession	P45973
Reactivity	Human, Monkey, Pig, Sheep, Horse, Bovine
Host	Goat
Clonality	Polyclonal
Calculated MW	22kDa KDa

CBX5 / HP1 Alpha Antibody (Internal) - Additional Information

Gene ID 23468

Other Names

Chromobox protein homolog 5, Antigen p25, Heterochromatin protein 1 homolog alpha, HP1 alpha, CBX5, HP1A

Target/Specificity

Human CBX5 / HP1. Variants (NP_036249.1; NP_001120793.1; NP_001120794.1) encode the same protein.

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

CBX5 / HP1 Alpha Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

CBX5 / HP1 Alpha Antibody (Internal) - 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). 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.

Cellular Location

Nucleus. Chromosome. Chromosome, centromere Note=Colocalizes with HNRNPU in the nucleus

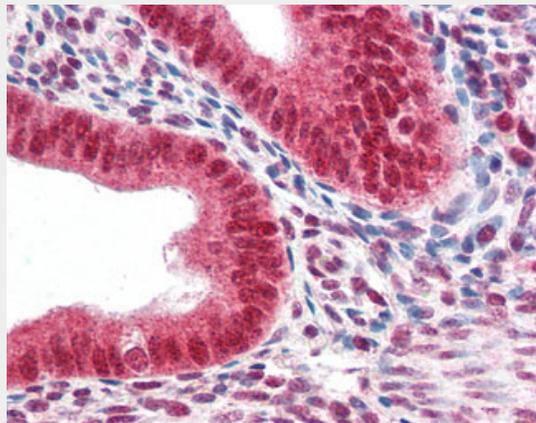
(PubMed:19617346) Component of centromeric and pericentromeric heterochromatin Associates with chromosomes during mitosis. Associates specifically with chromatin during metaphase and anaphase (PubMed:19617346) Localizes to sites of DNA damage (PubMed:28977666)

CBX5 / HP1 Alpha Antibody (Internal) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CBX5 / HP1 Alpha Antibody (Internal) - Images



Anti-CBX5 / HP1 antibody IHC of human uterus.

CBX5 / HP1 Alpha Antibody (Internal) - 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.

CBX5 / HP1 Alpha Antibody (Internal) - References

- Saunders W.S., et al. *Cell Sci.* 104:573-582(1993).
Ota T., et al. *Nat. Genet.* 36:40-45(2004).
Mural R.J., et al. Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Ye Q., et al. *J. Biol. Chem.* 271:14653-14656(1996).
Lubec G., et al. Submitted (DEC-2008) to UniProtKB.