

CBX5 Recombinant antibody

Cat:B36264S

Company: HaoKebio

Uniprot ID:P45973

Applications: IHC:1:1000-1:4000

Organism:Rabbit

IHC-Polymer:1:4000-1:16000

Species reactivity:Human Mouse Rat

IHC-TSA:1:5000-1:20000

Molecular Weight Calculation: 191 aa, 22 kDa

IF:1:50-1:200

Observed Molecular Weight: 22 kDa

WB:1:5000-1:50000

FC:1:200-1:600

Background:

Chromobox protein homolog 5 (CBX5), also named heterochromatin protein 1 alpha (HP1a), is a highly conserved nonhistone protein involved in heterochromatin formation and gene silencing in different species including humans. HP1a is a component of heterochromatin that recognizes and binds histone H3 tails methylated at 'Lys-9' (H3 K9me), leading to epigenetic repression. In contrast, it is excluded from chromatin when 'Tyr-41' of histone H3 is phosphorylated (H3Y41ph). It may interact with lamin-Breceptor. HP1a is involved in the formation of functional kinetochore through interaction with MIS12complex proteins. Phosphorylation of HP1 and LBR during interphase mitosis may be responsible for some of the alterations in chromatin organization and nuclear structure which occur at various times during the cell cycle. The HP1a was expressed in nucleus and associates specifically with chromatin during metaphase and anaphase. Recent studies have shown that HP1a is present at many euchromatic sites and positively regulates euchromatic gene expression through RNA transcript association and interaction with hnRNPs in Drosophila.

Synonyms:

240145F11, Antigen p25, HP1, HP1 alpha, HP1 A

Subcellular location:

Nucleus

Purity:

Affinity purification

Form:

Liquid

Storage Buffer:

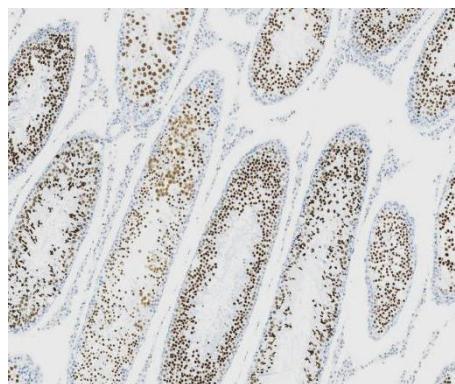
PBS with 0.02% sodium azide,100 µg/ml BSA and 50% glycerol.

Storage:

Store at -20 °C for one year.

Experimental procedure:

Antigen retrieval: Citrate buffer (pH 9.0) , Medium high heat for 8 minutes, stop for 7 minutes, medium high heat for 8 minutes. Incubate antibody, 4°C overnight. Secondary antibody: Poly-HRP Goat Anti-Rabbit & Mouse Universal Secondary Antibody, RT, 1h.

Images:


Sample: Mouse testis, 4% PFA 12-24h

Source of Reagents:

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