

Anti-HP1 alpha (pS92) Antibody

Rabbit polyclonal antibody to HP1 alpha (pS92)
Catalog # AP60919

Product Information

Application	WB, IHC
Primary Accession	P45973
Other Accession	Q61686
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	22225

Additional Information

Gene ID	23468
Other Names	HP1A; Chromobox protein homolog 5; Antigen p25; Heterochromatin protein 1 homolog alpha; HP1 alpha
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human HP1 alpha. The exact sequence is proprietary.
Dilution	WB~WB (1/500 - 1/1000), IHC (1/50 - 1/100) IHC~WB (1/500 - 1/1000), IHC (1/50 - 1/100)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C. Stable for 12 months from date of receipt

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 (PubMed: 40440427). In contrast, it is excluded from chromatin when 'Tyr-41' of histone H3 is phosphorylated (H3Y41ph) (PubMed: 19783980). Also recognizes and binds histone H1.4 methylated at 'Lys-26' (H1.4K26me) (PubMed: 16127177). Excluded from chromatin when histone H1.4 is Simultaneously methylated at Lys-26 (H1.4K26me) and phosphorylated at Ser-27 (H1.4S27Ph) (PubMed: 16127177). May contribute to the association of heterochromatin with the inner nuclear membrane by interactions with the lamin-B receptor (LBR) (PubMed: 19783980). Involved in the formation of

kinetochore through interaction with the MIS12 complex subunit NSL1 (PubMed:[19783980](#), PubMed:[20231385](#)). Required for the formation of the inner centromere (PubMed:[20231385](#)).

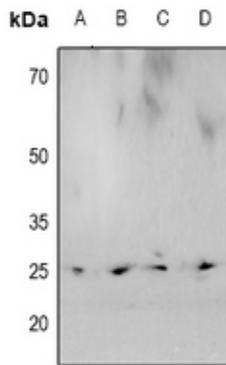
Cellular Location

Nucleus. Chromosome. Chromosome, centromere. Note=Colocalizes with HNRNPU in the nucleus (PubMed:19617346). Component of centromeric and pericentromeric heterochromatin. Associates with chromosomes during mitosis (PubMed:40440427). Associates specifically with chromatin during metaphase and anaphase (PubMed:19617346). Localizes to sites of DNA damage (PubMed:28977666).

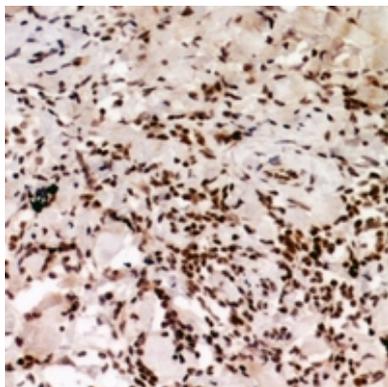
Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human HP1 alpha. The exact sequence is proprietary.

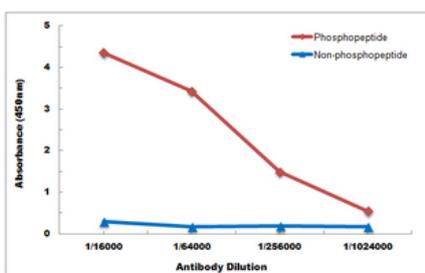
Images



Western blot analysis of HP1 alpha (pS92) expression in PC3 (A), mouse heart (B), mouse brain (C), rat heart (D) whole cell lysates.



Immunohistochemical analysis of HP1 alpha (pS92) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Direct ELISA antibody dose-response curve using Anti-HP1 alpha (pS92) Antibody. Antigen (phosphopeptide and non-phosphopeptide) concentration is 5 ug/ml. Goat Anti-Rabbit IgG (H&L) - HRP was used as the secondary antibody, and signal was developed by TMB substrate.

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