

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

Specification

Anti-HP1 alpha (pS92) Antibody - Product Information

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

Anti-HP1 alpha (pS92) Antibody - Additional Information

Gene ID 23468

Other Names

HP1A; Chromobox protein homolog 5; Antigen p25; Heterochromatin protein 1 homolog alpha; HP1 alpha

Target/Specificity

Recognizes endogenous levels of HP1 alpha (pS92) protein.

Dilution

WB~~WB (1/500 - 1/1000), IH (1/50 - 1/100)
E~~WB (1/500 - 1/1000), IH (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

Anti-HP1 alpha (pS92) Antibody - 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

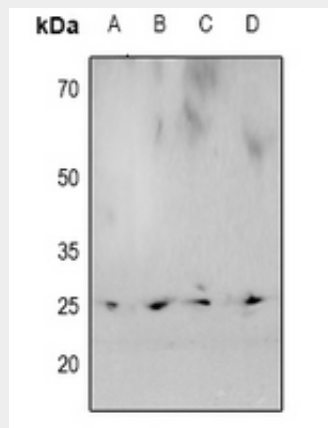
Nucleus. Chromosome. Chromosome, centromere Note=Colocalizes with HNRNPU in the nucleus (PubMed:19617346) Component of centromeric and pericentromeric heterochromatin Associates with chromosomes during mitosis. Associates specifically with chromatin during metaphase and anaphase (PubMed:19617346) Localizes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

Anti-HP1 alpha (pS92) Antibody - Protocols

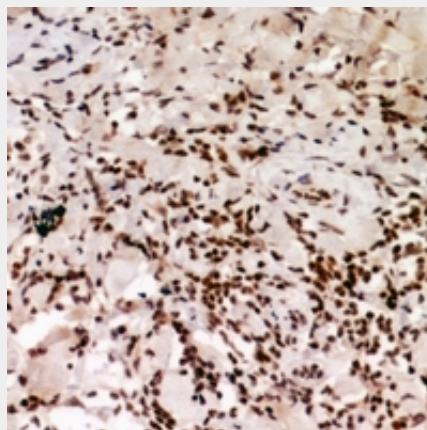
Provided below are standard protocols that you may find useful for product applications.

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

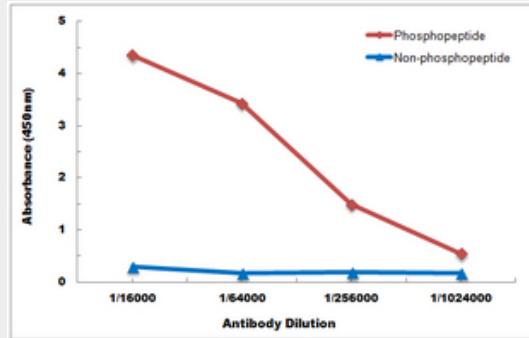
Anti-HP1 alpha (pS92) Antibody - Images



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.

Anti-HP1 alpha (pS92) Antibody - Background

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