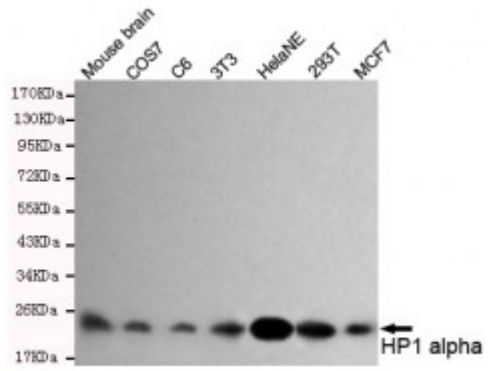
Anti-HP1-alpha antibody



Description	Mouse monoclonal to HP1-alpha.

Model	STJ99039
Host	Mouse
Reactivity	Human, Mouse
Applications	ELISA, WB
Immunogen	Purified recombinant human HP1 alpha protein fragments expressed in E.coli.
Gene ID	23468
Gene Symbol	CBX5
Dilution range	WB 1:500-2000ELISA 1:10000-20000
Specificity	This antibody detects endogenous levels of HP1 alpha and does not cross-react with related proteins.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clone ID	3G2-H10-A6
Note	For Research Use Only (RUO).
Protein Name	Chromobox protein homolog 5 Antigen p25 Heterochromatin protein 1 homolog alpha HP1 alpha
Molecular Weight	26kDa
Clonality	Monoclonal
Conjugation	Unconjugated

Isotype	IgG2b
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Concentration	1 mg/ml
Storage Instruction	Store at -20°C, and avoid repeat freeze-thaw cycles.
Database Links	HGNC:1555OMIM:604478
Alternative Names	Chromobox protein homolog 5 Antigen p25 Heterochromatin protein 1 homolog alpha HP1 alpha
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 Localization	Nucleus Chromosome Chromosome, centromere. Component of centromeric and pericentromeric heterochromatin. Associates with chromosomes during mitosis. Associates specifically with chromatin during metaphase and anaphase.
Post-translational Modifications	Phosphorylation of HP1 and LBR may be responsible for some of the alterations in chromatin organization and nuclear structure which occur at various times during the cell cycle . Phosphorylated during interphase and possibly hyper-phosphorylated during mitosis. Ubiquitinated.