

HP1 ALPHA (3G2) MOUSE MAB

Cat.#: N261010

Product Name: Anti-HP1 alpha (3G2) Mouse Monoclonal Antibody

Synonyms: CBX5; HP1A; Chromobox protein homolog 5; Antigen p25; Heterochromatin protein 1 homolog alpha; HP1 alpha

UNIPROT ID: P45973

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.

Immunogen: Purified recombinant human HP1 alpha protein fragments expressed in E.coli.

Applications: WB,IHC-F,IHC-P,ICC/IF

Recommended Dilutions: WB: 1/500-1/1000 IHC: 1/50-1/100 IF: 1/50-1/200

Host Species: Mouse

Clonality: Mouse Monoclonal

Clone ID: 3G2-H10-A6

MW: Calculated MW: 22 kDa; Observed MW: 26 kDa

Isotype: IgG2b

Purification: Affinity Purified

Species Reactivity: Human,Mouse,Rat

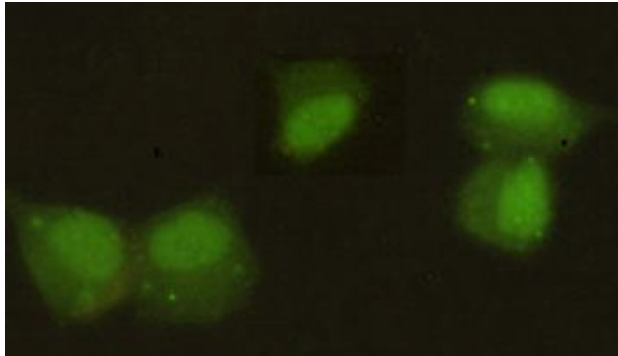
Conjugation: Unconjugated

Modification: Unmodified

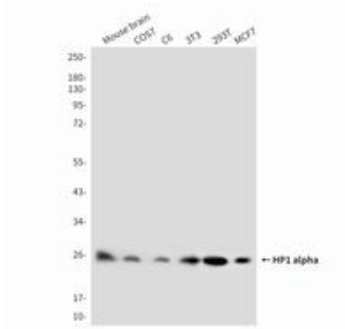
Constituents: PBS (without Mg²⁺ and Ca²⁺), pH 7.3 containing 50% glycerol, 0.5% BSA and 0.02% sodium azide

Research Areas: Epigenetics and Nuclear Signaling

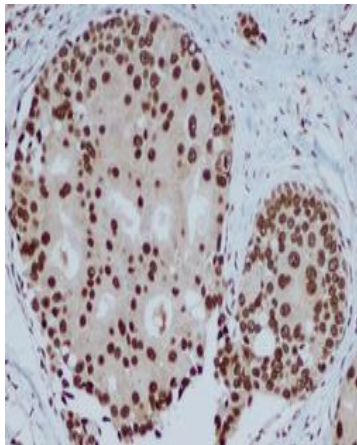
Storage & Shipping: Store at -20°C. Avoid repeated freezing and thawing



Immunocytochemistry analysis of HP1 alpha (3G2) in HeLa using HP1 alpha antibody.



Western blot analysis of HP1 alpha in MCF-7, 293T, 3T3, C6, COS7 and mouse brain lysates using HP1 alpha antibody.



Immunohistochemistry analysis of paraffin-embedded Human breast carcinoma using HP1 alpha antibody (3G2). High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.