

HP1 ALPHA MOUSE MAB

Cat.#: N261519

Product Name: Anti-HP1 alpha 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, ICC/IF, IHC-F, IHC-P

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

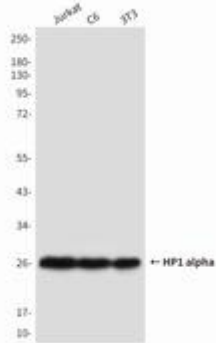
Conjugation: Unconjugated

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



Western blot analysis of HP1 alpha in Jurkat, C6 and 3T3 lysates using HP1 alpha antibody.