

## 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

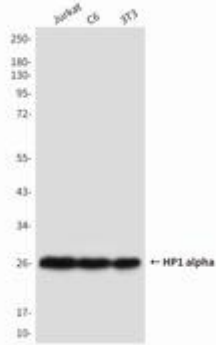
**Conjugation:** Unconjugated

**Modification:** Unmodified

**Constituents:** PBS (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), 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.