

## **Product Description**

Pioneering GTPase and Oncogene Product Development since 2010

## **HP1 ALPHA (1E8) MOUSE MAB**

Cat.#: N261349

**Product Name:** Anti-HP1 alpha (1E8) 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 protein expressed in E.coli.

**Applications:** WB,IHC-P

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

Host Species: Mouse

Clonality: Mouse Monoclonal

Clone ID: 1E8-5C3-10E1

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

**Isotype:** IgG1

**Purification:** Affinity Purified

Species Reactivity: Human, Rat, Mouse

**Conjugation:** Unconjugated **Modification:** Unmodified

Constituents: PBS (without Mg2+ and Ca2+), pH 7.3 containing 50%

glycerol, 0.5% BSA and 0.02% sodium azide

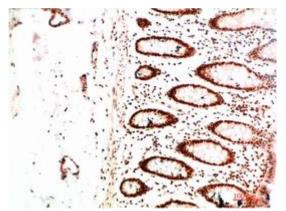
Research Areas: Epigenetics and Nuclear Signaling

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

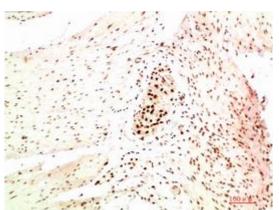


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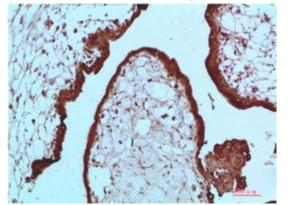
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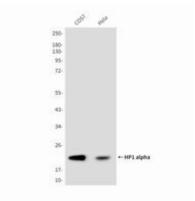
Immunohistochemical analysis of paraffin-embedded Human tonsils using HP1 alpha (1E8) antibody.High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Immunohistochemistry analysis of paraffin-embedded Human Colon Carcinoma Tissue using HP1 alpha (1E8) antibody.High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Immunohistochemistry analysis of paraffin-embedded Human Placenta Tissue using HP1 alpha (1E8) antibody High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



Western blot analysis of HP1 alpha (1E8) in COS7, Hela lysates using HP1 alpha (1E8) antibody.