

## Anti-HP1 alpha CBX5 Rabbit Monoclonal Antibody

Catalog # ABO13970

### **Specification**

## Anti-HP1 alpha CBX5 Rabbit Monoclonal Antibody - Product Information

Application WB, IHC, IF, ICC, IP, FC

Primary Accession
Host
Rabbit
Isotype
Rabbit IgG

Reactivity Rat, Human, Mouse

Clonality Monoclonal Format Liquid

**Description** 

Anti-HP1 alpha CBX5 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP, Flow Cytometry applications. This antibody reacts with Human, Mouse, Rat.

## Anti-HP1 alpha CBX5 Rabbit Monoclonal Antibody - Additional Information

**Gene ID 23468** 

#### **Other Names**

Chromobox protein homolog 5, Antigen p25, Heterochromatin protein 1 homolog alpha, HP1 alpha, CBX5, HP1A

# Calculated MW

22225 MW KDa

## **Application Details**

WB 1:500-1:2000<br/>br>IHC 1:50-1:200<br/>br>ICC/IF 1:50-1:200<br/>br>IP 1:50<br/>br>FC 1:50

### **Subcellular Localization**

Nucleus. Chromosome. Chromosome, centromere. Component of centromeric and pericentromeric heterochromatin. Associates with chromosomes during mitosis. Associates specifically with chromatin during metaphase and anaphase.

#### Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

#### **Immunogen**

A synthesized peptide derived from human HP1 alpha

## **Purification**

Affinity-chromatography

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.



## Anti-HP1 alpha CBX5 Rabbit Monoclonal Antibody - Protein Information

Name CBX5

Synonyms HP1A

### **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) (PubMed:<a

href="http://www.uniprot.org/citations/19783980" target="\_blank">19783980</a>). May contribute to the association of heterochromatin with the inner nuclear membrane by interactions with the lamin-B receptor (LBR) (PubMed:<a href="http://www.uniprot.org/citations/19783980" target="\_blank">19783980</a>). Involved in the formation of kinetochore through interaction with the MIS12 complex subunit NSL1 (PubMed:<a

 $href="http://www.uniprot.org/citations/19783980" target="\_blank">19783980</a>, PubMed:<a href="http://www.uniprot.org/citations/20231385" target="\_blank">20231385</a>). Required for the formation of the inner centromere (PubMed:<a$ 

href="http://www.uniprot.org/citations/20231385" target=" blank">20231385</a>).

#### **Cellular Location**

Nucleus. Chromosome. Chromosome, centromere. Note=Colocalizes with HNRNPU in the nucleus (PubMed:19617346). Component of centromeric and pericentromeric heterochromatin. Associates with chromosomes during mitosis. Associates specifically with chromatin during metaphase and anaphase (PubMed:19617346). Localizes to sites of DNA damage (PubMed:28977666)

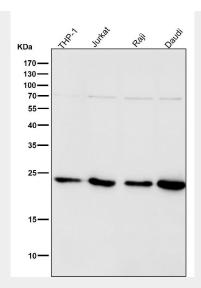
### Anti-HP1 alpha CBX5 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

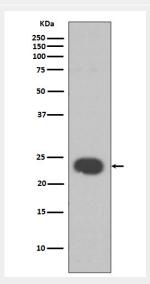
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## Anti-HP1 alpha CBX5 Rabbit Monoclonal Antibody - Images

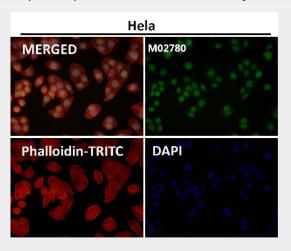




All lanes use the Antibody at 1:1K dilution for 1 hour at room temperature.

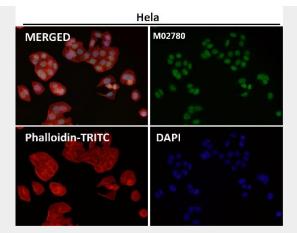


Western blot analysis of HP1 alpha expression in SH-SY5Y cell lysate.



Immunofluorescent analysis using the Antibody at 1:50 dilution.





Immunofluorescent analysis using the Antibody at 1:150 dilution.