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HP1α, ß and γ polyclonal antibody

Rabbit Polyclonal Antibody
Catalog # ABV11394

Specification

HP1α, ß and γ polyclonal antibody - Product Information

Application	**WB, IF**
Primary Accession	P45973
Other Accession	P83916, Q13185
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**22225**

HP1α, ß and γ polyclonal antibody - Additional Information

Gene ID 23468

Positive Control	**ChIP: NIH 3T3 cells, Western blot: HeLa cells, IF: HeLa cells.**
Application & Usage	**Western Blot: 1:1000, IF: 1:500, ChIP: 4 µg/ChIP**

Other Names
CBX5, 1, 3

Target/Specificity
HP1α, ß and γ

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
In PBS with 0.05% sodium azide and 0.05% ProClin 300.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
HP1α, ß and γ polyclonal antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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HP1α, ß and γ polyclonal 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). 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.

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)

HP1α, ß and γ polyclonal 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

HP1α, ß and γ polyclonal antibody - Images

HP1α, ß and γ polyclonal antibody - Background

HP1 alpha, beta and gamma are components of heterochromatin. They recognize and bind histone H3 tails methylated at ‘Lys-9’, leading to epigenetic repression of transcription. HP1 alpha, beta and gamma also interact with lamin B receptor (LBR), thereby contributing to the association of heterochromatin with the inner nuclear membrane.