For Research Use Only

CBX5 Polyclonal antibody

Catalog Number: 31109-1-AP



Purification Method:

WB 1:2000-1:10000

Antigen affinity Purification

Recommended Dilutions:

Basic Information

Catalog Number: 31109-1-AP

Size: 650 μg/ml Source: Rabbit Isotype:

Immunogen Catalog Number:

AG34810

homolog, Drosophila)

191 aa, 22 kDa

Tested Applications: WB, ELISA

Species Specificity:

Human

GenBank Accession Number:

BC006821 GeneID (NCBI): 23468

UNIPROT ID: P45973 Full Name:

chromobox homolog 5 (HP1 alpha

Calculated MW:

Observed MW: 25 kDa

Positive Controls:

WB: HEK-293 cells, HeLa cells, MCF-7 cells

Background Information

Applications

Chromobox protein homolog 5 (CBX5), also named heterochromatin protein 1 alpha (HP1a), is a highly conserved nonhistone protein involved in heterochromatin formation and gene silencing in different species including humans.HP1a is a 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). It may interact with lamin-Breceptor. HP1a is involved in the formation of functional kinetochore through interaction with MIS12complex proteins. Phosphorylation of HP1 and LBR during interphase mitosis may be responsible for some of the alterations in chromatin organization and nuclear structure which occur at various times during the cell cycle. The HP1a was expressed in nucleus and associates specifically with chromatin during metaphase and anaphase. Recent studies have shown that HP1a is present at many euchromatic sites and positively regulates euchromatic gene expression through RNA transcript association and interaction with hnRNPs in Drosophila (19798443). This antibody is a rabbit polyclonal antibody raised against a full-length human HP1A protein, and can reacts with the 28kd HP1A protein.

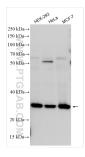
Storage

Store at -20°C. Stable for one year after shipment.

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 31109-1-AP (CBX5 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.