

For Research Use Only

CBX5 Polyclonal antibody

Catalog Number: 31109-1-AP

Featured Product



Basic Information

Catalog Number:

31109-1-AP

Size:

150ul, Concentration: 650 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG34810

GenBank Accession Number:

BC006821

GeneID (NCBI):

23468

UNIPROT ID:

P45973

Full Name:

chromobox homolog 5 (HP1 alpha homolog, Drosophila)

Calculated MW:

191 aa, 22 kDa

Observed MW:

25 kDa

Purification Method:

Antigen affinity Purification

Recommended Dilutions:

WB: 1:2000-1:10000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : HEK-293 cells, K-562 cells, HeLa cells, MCF-7 cells

Background Information

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 M1S12 complex 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 react with the 28kd HP1A protein.

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

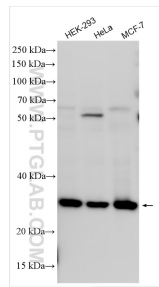
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

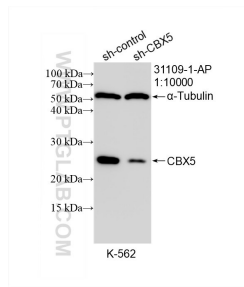
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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.



WB result of CBX5 antibody (31109-1-AP; 1:10000; incubated at room temperature for 1.5 hours) with sh-Control and sh-CBX5 transfected K-562 cells.