

For Research Use Only

CBX5 Polyclonal antibody

Catalog Number: 31109-1-AP



Basic Information

Catalog Number: 31109-1-AP	GenBank Accession Number: BC006821	Purification Method: Antigen affinity Purification
Size: 150ul , Concentration: 650 ug/ml by Nanodrop;	GeneID (NCBI): 23468	Recommended Dilutions: WB 1:2000-1:10000
Source: Rabbit	UNIPROT ID: P45973	
Isotype: IgG	Full Name: chromobox homolog 5 (HP1 alpha homolog, Drosophila)	
Immunogen Catalog Number: AG34810	Calculated MW: 191 aa, 22 kDa	
	Observed MW: 25 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : HEK-293 cells, HeLa cells, MCF-7 cells
Species Specificity: Human	

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

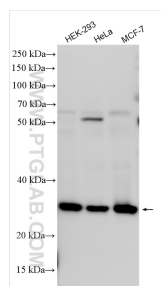
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 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)
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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.