For Research Use Only

## CBX5 Recombinant antibody

Catalog Number:83258-6-RR

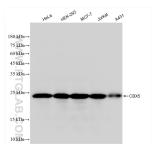


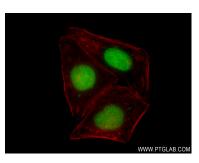
Basic Information	Catalog Number: 83258-6-RR	GenBank Accession Number: BC 006821	Purification Method: Protein A purfication	
	Size: 1000 μg/ml	GeneID (NCBI): 23468	CloneNo.: 240145G12	
	Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG34810	UNIPROT ID: P45973 Full Name: chromobox homolog 5 (HP1 alph homolog, Drosophila) Calculated MW: 191 aa, 22 kDa Observed MW: 24 kDa	Recommended Dilutions: WB 1:5000-1:50000 IF/ICC 1:200-1:800	
Applications	Tested Applications: WB, IF/ICC, ELISA Species Specificity: Human	WB : HeL cells, A4	Positive Controls: WB : HeLa cells, HEK-293 cells, MCF-7 cells, Jurkat cells, A431 cells IF/ICC : HepG2 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 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).			
Storage	Storage: Store at -20°C. Stable for one year Storage Buffer: PBS with 0.02% sodium azide and Aliquoting is unnecessary for -20°	50% glycerol pH 7.3.		

For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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## Selected Validation Data



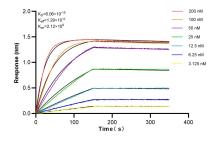


Various lysates were subjected to SDS PAGE followed by western blot with 83258-6-RR (CBX5 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.

Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CBX5 antibody (83258-6-RR, Clone: 240145G12) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1), CL594-Phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CBX5 antibody (83258-6-RR, Clone: 240145G12) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1), CL594-Phalloidin (red).



Biolayer interferometry (BLI) kinetic assays of 83258-6-RR against Human CBX5 were performed. The affinity constant is 0.606 nM.