

Product datasheet for **TA347091**

HP1 alpha (CBX5) Rabbit Polyclonal Antibody

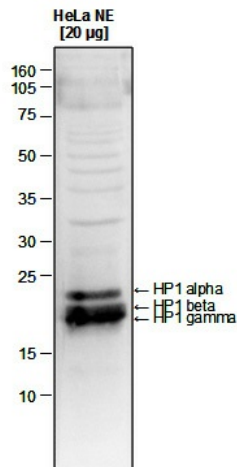
Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	ChIP (4ug/ChIP); Western blotting (1:1,000); IF (1:500)
Reactivity:	Human, Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-HP1 antibody: human HP1 . (Heterochromatin protein 1 homolog beta), using the full length recombinant GST tagged protein. The antibody also recognizes the . and . isoforms.
Concentration:	lot specific
Purification:	Protein G purified polyclonal antibody in PBS containing 0.05% azide and 0.05% ProClin 300.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	chromobox 5
Database Link:	NP_036249 Entrez Gene 12419 Mouse Entrez Gene 23468 Human P45973
Background:	HP1 alpha, beta and gamma (UniProt/Swiss-Prot entry P45973, P83916 and Q13185) 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.
Synonyms:	HEL25; HP1; HP1A

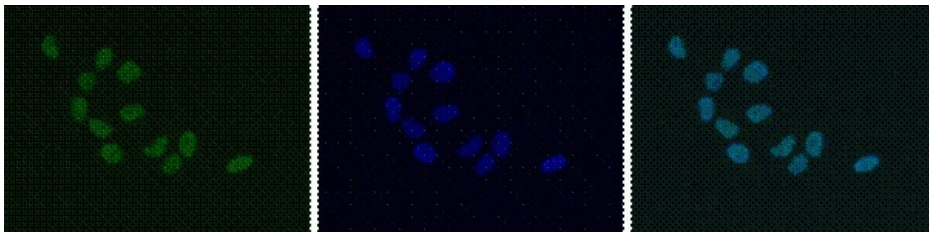


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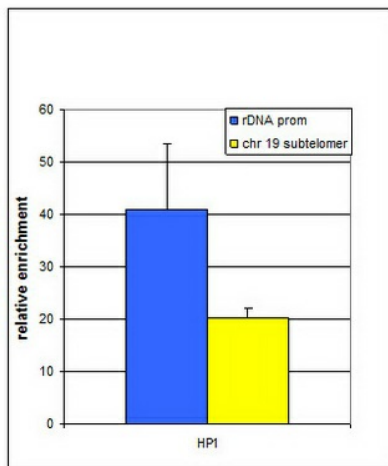
Product images:



WB was performed on nuclear extracts from HeLa cells (20 ug) with the antibody against human HP1α, β and γ diluted 1:1,000 in TBS-Tween containing 5% skimmed milk (Figure 1). The molecular weight marker (in kDa) is shown on the left; the expected location of HP1α, HP1β and HP1γ is indicated on the right.



HeLa cells were stained with the antibody against HP1α, β, γ and with DAPI. Cells were fixed with 4% formaldehyde for 10' and blocked with PBS/TX-100 containing 5% normal goat serum and 1% BSA. The cells were immunofluorescently labelled with the HP1α, β, γ antibody (left) diluted 1:500 in blocking solution followed by an anti-rabbit antibody conjugated to Alexa488. The middle panel shows staining of the nuclei with DAPI. A merge of the two stainings is shown on the right.



ChIP assays were performed using NIH3T3 cells and 4 ug of the antibody against HP1α, β and γ. QPCR was performed on the IP'd DNA with optimized primer sets for the rDNA promoter and for a subtelomeric sequence of chromosome 19. Image shows the relative enrichment as compared to a no antibody negative control ChIP.