

PRODUCT NAME		
hHP1 $\alpha$ polyclonal antibody		
Other names: HP1alpha, CBX5, HP1A		
<b>Cat. No.</b> pAb-070-050	<b>Type:</b> Polyclonal	<b>Size:</b> 50 $\mu$ g/ 25 $\mu$ l
<b>Lot #:</b> 001	<b>Source:</b> Rabbit	<b>Concentration:</b> 2.0 $\mu$ g/ $\mu$ l

**Description:** Polyclonal antibody raised in rabbit against human HP1 $\alpha$  (Heterochromatin protein 1 homolog alpha), using the full length recombinant GST tagged protein.

**Specificity:** Human: positive  
Other species: not tested

Applications	Suggested dilution	References
Western blotting	1:1,000	Fig 1

**Purity:** Protein G purified polyclonal antibody in PBS containing 0.05% azide and 0.05% ProClin 300.

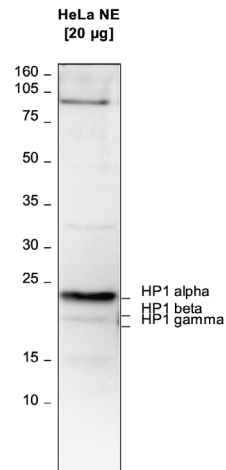
**Storage:** Store at -20°C; for long storage, store at -80°C. Avoid multiple freeze-thaw cycles.

**Precautions:** This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**Last data sheet update:** March 17, 2010

**Target description**

HP1 alpha [UniProt/Swiss-Prot entry P45973] is a component of heterochromatin. It recognizes and binds to histone H3 tails methylated at 'Lys-9', leading to epigenetic repression of transcription. HP1 alpha may also interact with lamin B receptor (LBR), thereby contributing to the association of the heterochromatin with the inner nuclear membrane. Further, HP1 alpha is involved in the formation of a functional kinetochore through interaction with MIS12 complex proteins.



**Figure 1**

**Western blot analysis using the Diagenode antibody directed against hHP1 $\alpha$**

Western blot was performed on nuclear extracts from HeLa cells (20 µg) with the Diagenode antibody against human HP1 $\alpha$  (Cat. No. pAb-070-050), 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 HP1 $\alpha$ , HP1 $\beta$  and HP1 $\gamma$  is indicated on the right. The western blot analysis clearly demonstrates that the HP1 $\alpha$  antibody specifically recognizes HP1 $\alpha$  and not HP1 $\beta$  and HP1 $\gamma$ .