



Technical Data Sheet

Diagenode sa

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Product name:

antibody directed against hHP1 α

(Heterochromatin protein 1 homolog alpha;
Chromobox protein homolog 5)

Other names: HP1 alpha, CBX5, HP1A

Catalog #: pAb-070-050	Type: Polyclonal	Size: 50 μ g/ 25 μ l
Lot #: 001	Source: Rabbit	Concentration: 2.0 μ g/ μ l

Description: This antibody has been raised in rabbits against the full length recombinant GST tagged human HP1 alpha protein.

Specificity: Human: positive
Other species: not tested

Applications	Suggested dilution	References
ELISA	Not tested	
Dot blotting	Not tested	
Western blotting	1:1,000	Fig 1
Gel Supershift	Not tested	
Immunocytochemistry	Not tested	
Flow cytometry	Not tested	
Immunoprecipitation	Not tested	
ChIP	Not tested	

Format: Polyclonal, protein G purified, antibody in PBS containing 0.05% azide and 0.05% ProClin 300.

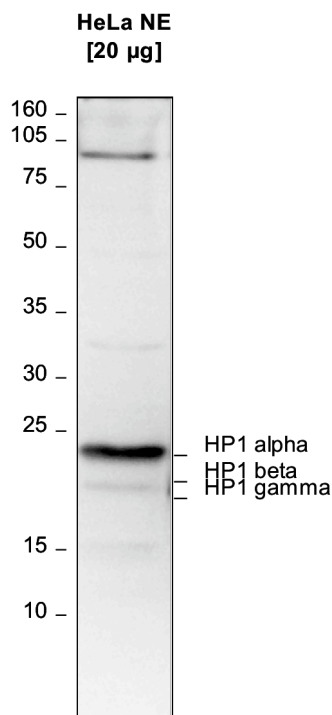
Storage: Store at -20°C/ -80°C. Avoid multiple freeze-thaw cycles.

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

Availability date: March 7, 2008. Last data sheet update: April 04, 2008

Lot #: 001/ purification date: September 20, 2007

Figure 1



Western blot analysis using the Diagenode purified antibody anti-hHP1α.

Western blot was performed on nuclear extracts from HeLa cells (HeLa NE, 20 µg) with the Diagenode purified antibody directed against human HP1α (cat# 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 HP1α, HP1β and HP1γ is indicated on the right. The western blot analysis clearly demonstrates that the HP1α antibody specifically recognizes HP1α and not HP1β and HP1γ.

Overview

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.