



Technical Data Sheet

Diagenode sa

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Product name:
antibody directed against hHP1 α , β and γ

(Heterochromatin protein 1 homolog alpha, beta and gamma; Chromobox protein homolog 5, 1 and 3)

Other names: CBX5, 1 and 3

Catalog #: pAb-071-050	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 against the full length recombinant GST tagged human HP1 beta 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	
Immunochemistry	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.

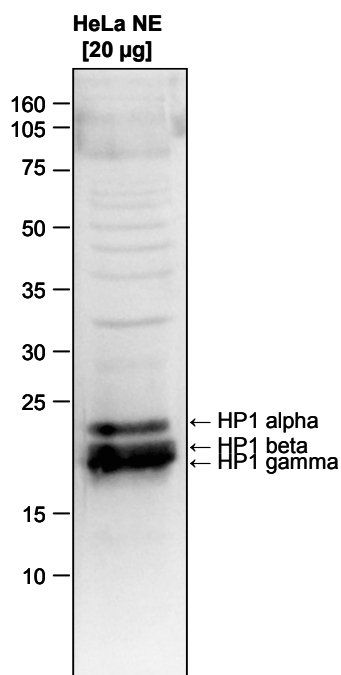
Storage: Store at -20°C/ -80°C. Avoid multiple freeze-thaw cycles.

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

Availability date: April 04, 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-hHP1 α , β and γ .

Western blot was performed on nuclear extracts from HeLa cells (HeLa NE, 20 μ g) with the Diagenode purified antibody directed against human HP1 alpha, beta and gamma (cat# pAb-071-050) 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 α , HP1 β and HP1 γ is indicated on the right. The HP1 antibody is not specific for HP1 β , but also recognizes HP1 α and HP1 γ .

Overview

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.