

Diagenode sa

CHU, Tour GIGA B34, 3^e étage
Avenue de l'Hôpital, 1
4000 Liège - Belgium

Product name:
antibody directed against hPR-Set7

(Histone-lysine N-methyltransferase, H4 lysine-20 specific)

Other names: SET domain-containing lysine methyltransferase 8, SETD8, SET07, SET8, PR/SET07

Catalog #: pAb-043-050	Type: Polyclonal	Size: 50 µg/ 25 µl
Lot #: 001	Source: Rabbit	Concentration: 2.0 µg/µl

Description: This antibody has been raised against the full length human PR-Set7 containing a Flag-tagged N-terminus and a His-tagged C terminus.

PR-SET7 is a histone methyl transferase (monomethylase) that adds a single methyl group to 'Lys-20' of histone H4 (see overview below).

Specificity: Human and mouse: 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: In solution in PBS including 0.05% azide and 0.05% ProClin 300. The polyclonal antibody has been protein G purified.

Storage: For long 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.

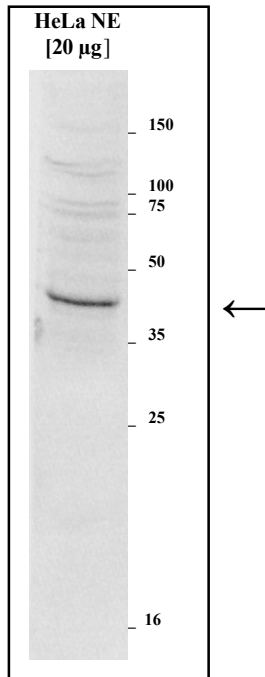
References:

[1] Nishioka K., Rice J.C., Sarma K., Erdjument-Bromage H., Werner J., Wang Y., Chuikov S., Valenzuela P., Tempst P., Steward R., Lis J.T., Allis C.D. and Reinberg D. 2002. *Mol. Cell* 9: 1201-13.

Availability date: June 22, 2007. Last data sheet update: June 29, 2007

Lot #: 001/ bleed day: final bleed/ purification day: April 10, 2007

Figure 1:



Western blot analysis using the Diagenode antibody anti-hPR-Set7

Western blot was performed on HeLa nuclear extract (HeLa NE, 20 µg) using the Diagenode antibody anti-hPR-Set7 (cat# pAb-043-050) at dilution 1:1000 in TBS-Tween + 5% skimmed milk. The antibody recognizes PR-Set7 in HeLa nuclear extract. On the right side, a molecular weight marker is shown (in kDa). The arrow indicates the location of the protein of interest.

Overview

H4 'Lys-20' methylation represents a specific tag for epigenetic transcriptional repression [1]. Nucleosomes are preferred as substrate compared to free histones. PRSET7 may play a role in maintaining silent chromatin by preventing neighboring acetylation of H4 tail (UniProtKB/Swiss-Prot entry Q9NQR1: <http://www.expasy.org/uniprot/Q9NQR1>).