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Product name:
 antibody directed against hSAP30
**(Human Sin3-associated polypeptide, 30kDa;
 histone deacetylase complex subunit SAP30)**
**Other names: Sin3 corepressor complex
 subunit SAP30**

Catalog #: PAb-036-050	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 His-tagged human SAP30.

Human SAP30 is involved in the functional recruitment of the Sin3-histone deacetylase complex (HDAC) to a specific subset of N-CoR corepressor complexes. SAP30 is capable of transcription repression by N-CoR (UniProtKB/Swiss-Prot entry O75446) (See overview below).

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; [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.

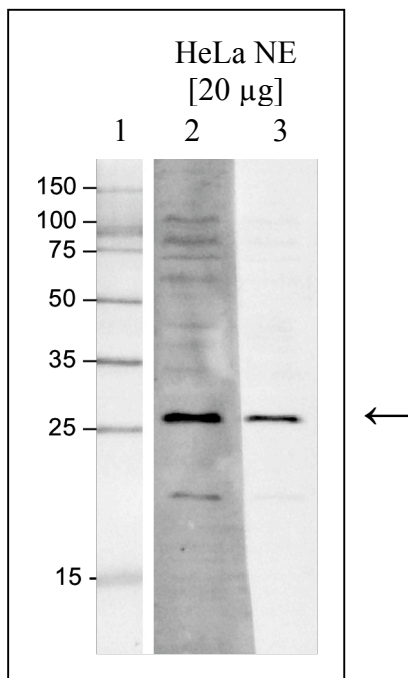
References:

[1]. Zhang Y., Sun Z-W., Iratni R., Erdjument-Bromage H., Tempst P., Hampsey M. and Reinberg D. 1998. *Mol. Cell.* 1: 1021-31.

Availability date: April 13, 2007. Last data sheet update: June 29, 2007

Lot #: 001/ purification day: March 26, 2007

Figure 1



Western blot analysis using the Diagenode antibody anti-hSAP30

Western blot was performed on HeLa nuclear extract (HeLa NE, 20 µg) using the Diagenode crude serum directed against anti-hSAP30 (cat# CS-036-100) (lane 2) and purified antibody directed against anti-hSAP30 (cat# pAb-036-050) (lane 3) at dilution 1:1,000 in TBS-Tween + 5% skimmed milk. The crude serum and purified antibody recognize endogenous SAP30 in HeLa nuclear extract (lanes 2 and 3). A molecular weight marker is shown in lane 1. The arrow indicates the location of the protein of interest.

Overview

Histone acetylation plays a key role in the regulation of eukaryotic gene expression. Histone acetylation and deacetylation are catalyzed by multisubunit complexes. SAP30 is a component of the histone deacetylase complex, which includes SIN3, SAP18, HDAC1, HDAC2, RbAp46, RbAp48, and other polypeptides. This complex is active in deacetylating core histone octamers, but inactive in deacetylating nucleosomal histones (NCBI, Protein, NP_003855).

Interactions (UniProtKB/Swiss-Prot entry O75446)

- SAP30 interacts with SIN3A, SIN3B, HDAC2 and NCOR1 (By similarity).
- SAP30 is a component of the histone deacetylase complex that includes at least SIN3A, HDAC1 and HDAC2.
- SAP30 interacts with HDAC1 and HCFC1.