



Technical Data Sheet

Diagenode sa
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Product name:
antibody directed against hSnf2h

(Human Sucrose nonfermenting protein 2 homolog; SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A member 5)

Other names: SMARCA5, SNF2H, WCRF135)

Catalog #: MAb-040-050	Type: Monoclonal	Size: 50 µg/ 25 µl
Lot #: 001	Source: Mouse	Concentration: 2.0 µg/µl

Description: This antibody has been raised against the recombinant human Snf2h protein. Snf2h possesses intrinsic ATP-dependent nucleosome remodelling activity (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	
Immunocytochemistry	Tested	[1]
Flow cytometry	Not tested	
Immunoprecipitation	Tested	[1]
ChIP	Not tested	

Format: In solution in PBS including 0.05% azide and 0.05% ProClin 300. The monoclonal 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.

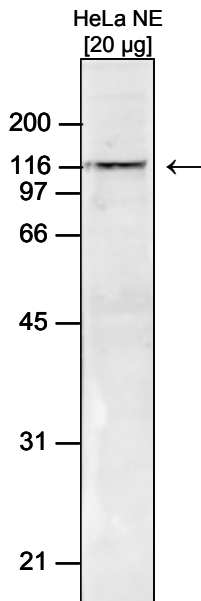
References:

[1]. Loyola A., Huang J.Y., LeRoy G., Hu S., Wang Y.H., Donnelly R.J., Lane W.S., Lee S.C. and Reinberg D. 2003. *Mol. Cell. Biol.* 23(19):6759-68.

Availability date: August 29, 2007. Last data sheet update: September 20, 2007

Lot #: 001/ purification day: April 2, 2007

Figure 1



Western blot analysis using the Diagenode purified monoclonal antibody anti-hSnf2h.

Western blot was performed using nuclear extracts from HeLa cells (HeLa NE, 20 µg) and the Diagenode purified monoclonal antibody directed against hSnf2h (cat# MAb-040-050) at dilution 1:1,000 in TBS-Tween + 5% skimmed milk. On the left side, a molecular weight marker is shown (in kDa). The arrow indicates the location of the protein of interest.

Overview

Complexes containing Snf2h (SMARCA5) are capable of forming ordered nucleosome arrays on chromatin in vitro (may require intact histone H4 tails). SNF2h is also required for replication of pericentric heterochromatin in S-phase, specifically in conjunction with BAZ1A. Snf2h probably also plays a role in repression of poll dependent transcription of the rDNA locus, through the recruitment of the SIN3/HDAC1 corepressor complex to the rDNA promoter. Snf2h is a catalytic subunit of the four known chromatin-remodeling complexes: CHRAC, RSF, ACF/WCRF, and WICH. Each complex contains subunits which may regulate the specificity or catalytic activity of SMARCA5 (UniProtKB/Swiss-Prot entry O60264: <http://expasy.org/uniprot/O60264>).