

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

Product name:
antibody directed against hRsf1

(human remodeling and spacing factor 1)

Other names: Rsf-1, RSF1, Hepatitis B virus X-associated protein, HBV pX-associated protein 8, p325 subunit of RSF chromatin remodelling complex

Catalog #: MAb-041-050	Type: Monoclonal IgG1	Size: 50 µg/ 39 µl
Lot #: 001	Source: Mouse	Concentration: 1.3 µg/µl

Description: This antibody has been raised against the recombinant human Rsf1 protein.

RSF1 can act as a transcriptional activator and as a transcriptional repressor. Rsf1 interacts with SMARCA5/SNF2H to form the RSF complex (see overview below).

Specificity: Human: positive
 Other species: not tested

Applications	Suggested dilution	References
ELISA	Not tested	
Dot blotting	Not tested	
Western blotting	1:500	Fig 1; [1]
Gel Supershift	Not tested	
Immunofluorescence	-	[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.

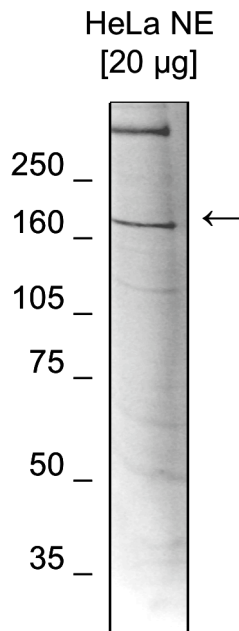
References:

[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: October 4, 2007. Last data sheet update: April 04, 2008

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

Figure 1



Western blot analysis using the Diagenode purified antibody anti-hRsf1.

Western blot was performed using nuclear extracts from HeLa cells (HeLa NE, 20 µg) and the Diagenode purified antibody directed against hRsf1 (cat# MAb-041-050) at dilution 1:500 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

Rsf1 is required for assembly of regular nucleosome arrays by the RSF chromatin remodelling complex. Rsf1 facilitates transcription of hepatitis B virus (HBV) genes by the pX transcription activator. In case of infection by HBV, together with pX, it represses TNF-alpha induced NF-kappaB transcription activation. Rsf1 represses transcription when artificially recruited to chromatin by fusion to a heterogeneous DNA binding domain.

Rsf1 interacts with SMARCA5/SNF2H to form the RSF complex and also binds the HBV pX/HBx protein, which is required to activate transcription of the viral genome (UniProtKB/Swiss-Prot entry Q96T23: <http://www.expasy.org/uniprot/Q96T23>).