

**Diagenode sa**

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**Product name:**
**antibody directed against hPaf1**
**(Component of the human PAF complex)**

<b>Catalog #:</b> pAb-015-050	<b>Type:</b> Polyclonal	<b>Size:</b> 50 µg/ 25 µl
<b>Lot #:</b> 001	<b>Source:</b> Rabbit	<b>Concentration:</b> 2.0 µg/µl

**Description:** This antibody has been raised against the full length recombinant human Paf1 protein.

PAF is a five-subunit protein complex composed of Paf1, Cdc73, Leo1, Rtf1 and Ctr9, which was first purified from yeast in association with RNA polymerase II and which was believed to function in transcription elongation [1] (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
Gel Supershift	Not tested	
Immunochemistry	Not tested	
Flow cytometry	Not tested	
Immunoprecipitation	Not tested	
ChIP	-	[2]

**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.

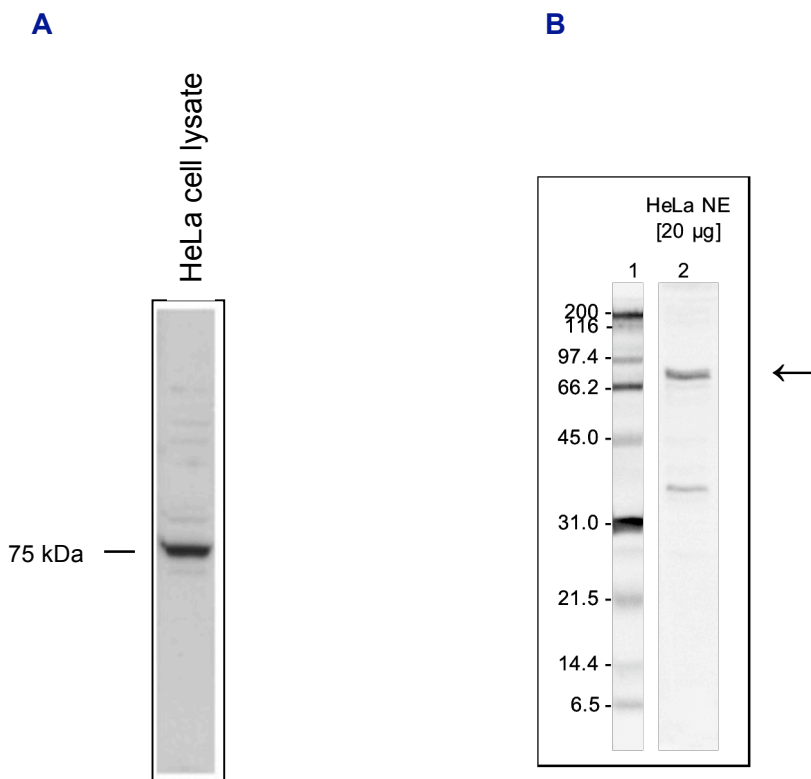
**References:**

- [1]. Rondon A.G., Gallardo M., Garcia-Rubio M. and Aguilera A. 2004. *EMBO Rep.* 5(1):47-53.
- [2]. Zhu B., Mandal S. S., Pham A.D., Zheng Y., Erdjument-Bromage H., Batra S.K., Tempst P. and Reinberg D. 2005. *Genes Dev.* 19:1668-73.

**Availability date:** March 12, 2007. Last data sheet update: June 29, 2007

**Lot #:** 001: rabbit#1/ bleed day: final bleed/ purification day: February 27, 2007

**Figure 1:**



**Western blot analysis using the antibody from Diagenode anti-hPaf1**

**Panel A:** HeLa cell lysate was analysed by Western blot using antiserum raised against hPaf1 (Diagenode, crude serum) at dilution 1:2,000. Size and location of the protein are indicated.

**Panel B:** HeLa nuclear extract [20 µg] was analysed by western blot using the Diagenode antibody directed against hPaf1 (cat# pAb-015-050) at dilution 1:1000 in TBS-Tween + 5% skimmed milk (lane 2). In lane 1, the molecular weight marker is shown. The arrow indicates the location of the protein of interest.

## Overview

The yeast PAF (yPAF) complex interacts with RNA polymerase II and coordinates the setting of histone marks associated with active transcription. The isolation and functional characterization of human PAF (hPAF) complex was reported. hPAF shares four subunits with yPAF (hCtr9, hPaf1, hLeo1 and Cdc73), but contains a novel higher eukaryotic-specific subunit, hSki8 [2]. In addition to coordinating events during transcription (initiation, promoter clearance and elongation); PAF also coordinates events in RNA quality control [2].