



## Technical Data Sheet

Diagenode sa  
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**Product name:**  
antibody directed against p63

(protein p63 is a transcription factor structurally related to the p53 tumor suppressor)

<b>Catalog #:</b> pAb-TFpp63-050	<b>Type:</b> Polyclonal	<b>Size:</b> 50 µg/ 42 µl
<b>Lot #:</b> TF-0010	<b>Source:</b> Rabbit	<b>Concentration:</b> 1.2 µg/ µl

**Description:** This antibody has been raised against recombinant p63. The antibody recognizes all the p63 isoforms.

**Specificity:** Human: positive  
Other species: not tested

Applications	Suggested dilution	References
ELISA	Not tested	
Dot blotting	Not tested	
Western blotting	1:1000	
Gel Supershift	Not tested	
Immunocytochemistry	1:100	
Flow cytometry	Not tested	
Immunoprecipitation	2-4 µg of ab/ 100 µg of nuclear extract	
ChIP	5 µg per IP (4 µl)	Fig 1

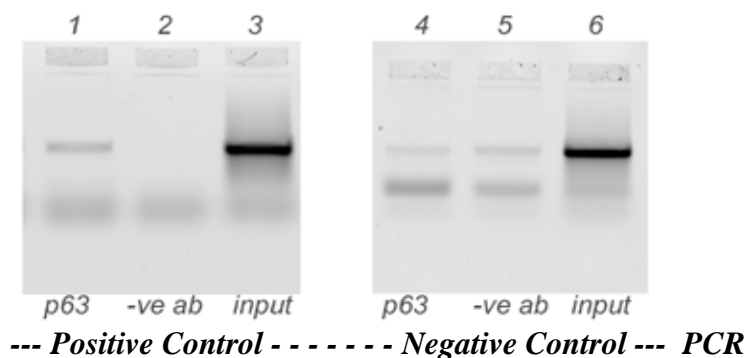
**Format:** In solution in PBS. The polyclonal antibody has been affinity purified.

**Storage:** Store at -20°C. Do not freeze-thaw.

**Precautions:** This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**Availability date:** December 01, 2006  
Last data sheet update: February 27, 2007

**Figure 1**



### ChIP results obtained with the antibody anti-p63 from Diagenode.

ChIP assays were performed using HaCaT cells, the Diagenode antibody directed against p63 and optimized PCR primer sets for end-point PCR. Chromatin sheared from  $2 \times 10^6$  cells and  $5 \mu\text{g}$  of antibody anti-p63 were used per ChIP experiment (lanes 1 and 4). A negative control antibody was included in the ChIP assay (lanes 2 and 5). Primers for the FDXR promoter were used in PCR as positive control (lanes 1, 2 and 3) and primers for hybBC0329 were used in PCR as negative control (lanes 4, 5 and 6) as indicated below the figure.

Occupancy of the FDXR promoter is evident based on the end-point PCR analysis of immunoprecipitated DNA (lane 1, positive sample). Controls for IP and PCR specificity include: *a/* PCR performed with the primers for hybBC0329 (lane 4, negative control); *b/* PCR was performed with each primer pairs and the input sample (as a positive control for input as well as primer pairs and PCR (lanes 3 and 6)); and *c/* IP was performed with a negative control antibody (lanes 2 and 5).

### p63 quick overview

The protein p63 is a transcription factor structurally related to the p53 tumor suppressor [1, 2]. Six p63 isoforms are potentially present in cells at various levels of relative expression [3]. Proteins p53 and p63 are transcription factors that play an essential role in modulating cell cycle arrest and cell death in response to several environmental stresses. Proteins p53 and p63 directly bind to the p53 response element *in vivo* and promote the accessibility of the FDXR promoter [4].

1. Ghioni P., Bolognese F., Duijf P.H., Van Bokhoven H., Mantovani R. and Guerrini L. 2002 *Mol Cell Biol.* 22(24):8659-68.
2. Viganò M.A., Lamartine J., Testoni B., Merico D., Alotto D., Castagnoli C., Robert A., Candi E., Melino G., Gidrol X. and Mantovani R. 2006. *The EMBO Journal* 25:5105–16.
3. Testoni B. and Mantovani R. 2006 *Nucleic Acids Res.* 34(3):928–38.
4. Liu G. and Chen X. 2002 *Oncogene* 21(47):7195-204.