

#4662 Store at -20°C

p73 Antibody

✓ 100 µl
(10 western blots)



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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W Transfected	H, (M, Mk)	80 kDa	Rabbit**

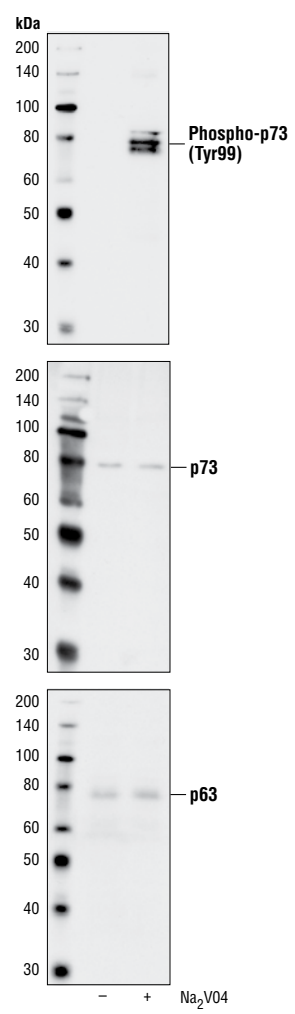
Background: The p53 family member, p73, exists in multiple isoforms/splice variants and can induce apoptosis and cell cycle arrest in response to DNA damage via its activity as a transcription regulator (1-3). Upon DNA damage, p73 is phosphorylated at Tyr99 by c-Abl, causing translocation to the nuclear matrix (4). DNA damage-induced acetylation of p73 at Lys321 by the acetyltransferase p300 has also been reported to enhance transcription of genes including that of p53AIP1 (5). Another report, however, indicates that p300 does not acetylate full length p73 *in vivo* (6).

Specificity/Sensitivity: p73 Antibody detects levels of p73 independent of phosphorylation and acetylation only when derived from a transfected DNA construct

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino-terminus of human p73. Antibodies are purified by protein A and peptide affinity chromatography.

Background References:

- (1) Kaghad, M. et al. (1997) *Cell* 90, 809–819.
- (2) Jost, C. A. et al. (1997) *Nature* 389, 191–194.
- (3) De Laurenzi, V. D. et al. (1999) *Cell Death Differ.* 6, 389–390.
- (4) Ben-Yehoyada, M. et al. (2003) *J. Biol. Chem.* 278, 34475–34482.
- (5) Costanzo, A. et al. (2002) *Mol. Cell* 9, 175–186.
- (6) Zeng, X. et al. (2001) *J. Biol. Chem.* 276, 48–52.



Western blot analysis of extracts from HT-1376 cells, untreated or pervanadate-treated (1 mM, 20 minutes), using Phospho-p73 (Tyr99) Antibody #4665 (upper), p73 Antibody (middle), or p63 (4A4) Mouse mAb #4894 antibody (lower).

Entrez-Gene ID #7161
Swiss-Prot Acc. #O15350

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

*Species cross-reactivity is determined by western blot.

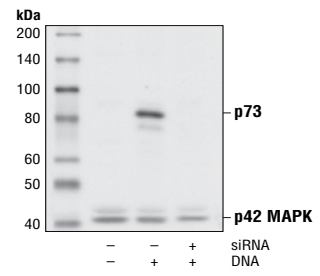
**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting 1:1000

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.



Western blot analysis of extracts from HeLa cells untransfected (lane 1) or transfected with p73 DNA (lanes 2 and 3). Overexpression of p73 can be specifically blocked by co-transfection with p73 siRNA #6371 (lane 3). p73 was detected using p73 Antibody and p42 was detected using p42 MAPK Antibody #9108. The p73 Antibody confirms silencing of exogenous p73 expression and the p42 MAPK Antibody is used to control for loading and siRNA specificity.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v BSA, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

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Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine
Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.