



Orders: 877-616-CELL (2355)
orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

p73 Antibody

Store at -20C
#4662

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Transfected Only	80	Rabbit	#O15350	7161

Product Usage Information

Application

Western Blotting

Dilution

1:1000

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.

Specificity/Sensitivity

p73 Antibody detects transfected levels of total p73. Because endogenous levels of p73 protein are low, it may be difficult to detect endogenous p73.

Species predicted to react based on 100% sequence homology

Mouse, Monkey

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

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).

Background References

1. Kaghad, M. et al. (1997) *Cell* 90, 809-19.
2. Jost, C.A. et al. (1997) *Nature* 389, 191-4.
3. De Laurenzi, V.D. et al. (1999) *Cell Death Differ* 6, 389-90.
4. Ben-Yehoyada, M. et al. (2003) *J Biol Chem* 278, 34475-82.
5. Costanzo, A. et al. (2002) *Mol Cell* 9, 175-86.
6. Zeng, X. et al. (2001) *J Biol Chem* 276, 48-52.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

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

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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