

#4665 Store at -20°C

Phospho-p73 (Tyr99) Antibody


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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H	Endogenous	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	Phospho-p73 (Tyr99) Antibody detects endogenous levels of p73 only when phosphorylated at tyrosine 99. This antibody cross-reacts with p63 when phosphorylated at tyrosine 149.	
Species predicted to react based on 100% sequence homology:	Mouse, Rat, Monkey	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Tyr99 of human p73. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	<p>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 <i>in vivo</i> (6).</p> <p>While the sequences surrounding p73 Tyr99 and p63 Tyr149 are very similar, only p73 co-localizes with c-Abl following gamma irradiation, suggesting that p63 is not a c-Abl substrate (7).</p>	
Background References	<ol style="list-style-type: none"> 1. Kaghad, M. et al. (1997) <i>Cell</i> 90, 809-19. 2. Jost, C.A. et al. (1997) <i>Nature</i> 389, 191-4. 3. De Laurenzi, V.D. et al. (1999) <i>Cell Death Differ</i> 6, 389-90. 4. Ben-Yehoyada, M. et al. (2003) <i>J Biol Chem</i> 278, 34475-82. 5. Costanzo, A. et al. (2002) <i>Mol Cell</i> 9, 175-86. 6. Zeng, X. et al. (2001) <i>J Biol Chem</i> 276, 48-52. 7. Hamer, G. et al. (2001) <i>Oncogene</i> 20, 4298-4304. 	

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	WB: Western Blotting
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus 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 GP: Guinea Pig Rab: rabbit All: all species expected
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