



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

Store at -20C
#4665

Phospho-p73 (Tyr99) Antibody

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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 80	Source/Isotype: Rabbit	UniProt ID: #O15350	Entrez-Gene Id: 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	W: Western Blotting	
Cross-Reactivity Key	H: Human	
Trademarks and Patents	<p>Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.</p> <p>All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.</p>	
Limited Uses	<p>Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.</p>	

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.