Phospho-NF-кВ p65 (Ser276) Antibody





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

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

Applications: W, IHC-P	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 65-80	Source/Isotype: Rabbit	UniProt ID: #Q04206	Entrez-Gene Id: 5970	
Product Usage Information	2	Application Western Blotting Immunohistochemist	ry (Paraffin)		1:	ilution 1000 50	
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.				ycerol. Store at –	
Specificity/Sen	sitivity	Phospho-NF-кВ p65 (Ser276) Antibody detects NF-кВ p65 only when phosphorylated at Ser276. It also cross-reacts with the homologous phosphorylated residues in c-Rel (Ser267) and NF-кВ1 p105/p50 (Ser337).					
Species predic based on 100% homology		Bovine, Dog, Pig					
Source / Purifi	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser276 of human NF-κB p65. Antibodies are purified by protein A and peptide affinity chromatography.					
Background		Transcription factors of the nuclear factor κB (NF-κB)/Rel family play a pivotal role in inflammatory and immune responses (1,2). There are five family members in mammals: RelA, c-Rel, RelB, NF-κB1 (p105/p50), and NF-κB2 (p100/p52). Both p105 and p100 are proteolytically processed by the proteasome to produce p50 and p52, respectively. Rel proteins bind p50 and p52 to form dimeric complexes that bind DNA and regulate transcription. In unstimulated cells, NF-κB is sequestered in the cytoplasm by IkB inhibitory proteins (3-5). NF-κB-activating agents can induce the phosphorylation of IkB proteins, targeting them for rapid degradation through the ubiquitin-proteasome pathway and releasing NF-κB to enter the nucleus where it regulates gene expression (6-8). NIK and IKKα (IKK1) regulate the phosphorylation and processing of NF-κB2 (p100) to produce p52, which translocates to the nucleus (9-11). Phosphorylation of NF-κB p65 by PKA and/or MSK1 at Ser276 allows for increased interaction with the transcriptional coactivator p300/CBP to further enhance the transcriptional activity of this transcription factor (12-14)					
Background R	eferences	2. Baeuerle, P.A. and E 3. Haskill, S. et al. (199 4. Thompson, J.E. et al 5. Whiteside, S.T. et al. 6. Traenckner, E.B. et a	Baltimore, D. (1996) (1) <i>Cell</i> 65, 1281-9. (1995) <i>Cell</i> 80, 573 (1997) <i>EMBO J</i> 16, (1995) <i>EMBO J</i> 14 (1995) <i>Proc Natl Acau</i> (6) <i>Cell</i> 84, 853-62. (2001) <i>Science</i> 293, (2002) <i>EMBO J</i> 21, 53 (1) <i>Mol Cell</i> 7, 401-9. (397) <i>Cell</i> 89, 413-424 (398) <i>Mol. Cell</i> 1, 661	-82. 1413-26. , 2876-83. <i>d Sci USA</i> 92, 11259-63. 1495-9. 75-85. 4. -671.	-79.		
Species Reacti	vity	Species reactivity is de	etermined by testing	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot E	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.			n 5% w/v BSA, 1X		

Applications Key	W: Western Blotting IHC-P: Immunohistochemistry (Paraffin)		
Cross-Reactivity Key	H: Human M: Mouse R: Rat		
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.		
	All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.		
Limited Uses	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.		
	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 purpose, 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 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.		