**Cell Signaling** Store at -20C Phospho-NF-kB2 p100 (Ser866/870) Antibody ΤΕСΗΝΟΙΟ**ΘΥ**® Orders: 877-616-CELL (2355) orders@cellsignal.com 877-678-TECH (8324) Support: Web: info@cellsignal.com cellsignal.com 3 Trask Lane | Danvers | Massachusetts | 01923 | USA For Research Use Only. Not for Use in Diagnostic Procedures. Applications: Reactivity: Sensitivity: MW (kDa): Source: UniProt ID: Entrez-Gene Id: WB, IP ΗМ Transfected 110 Rabbit #Q00653 4791 Only Product Usage Application Dilution Information Western Blotting 1:1000 Immunoprecipitation 1.50

StorageSupplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at –<br/>20°C. Do not aliquot the antibody.

Specificity / Sensitivity Phospho-NF-KB2 p100 (Ser866/870) Antibody detects transfected NF-KB2 p100 when phosphorylated at serines 866 and 870.

Species predicted to Rat, Bovine, Dog react based on 100%

sequence homology:

Source / PurificationPolyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding<br/>to residues surrounding serines 866/870 of NF-κB2 p100. Nomenclature refers to the human sequence<br/>(SwissProt# Q00653). This site is homologous to rat Ser864/868 (Q5U2Z4) and mouse Ser865/869<br/>(Q9WTK5). Antibodies are purified by protein A and peptide affinity chromatography.BackgroundTranscription 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).

Background References	1. Baeuerle, P.A. and Henkel, T. (1994) Annu Rev Immunol 12, 141-79.
5	2. Baeuerle, P.A. and Baltimore, D. (1996) Cell 87, 13-20.
	3. Haskill, S. et al. (1991) <i>Cell</i> 65, 1281-9.
	4. Thompson, J.E. et al. (1995) Cell 80, 573-82.
	5. Whiteside, S.T. et al. (1997) <i>EMBO J</i> 16, 1413-26.
	6. Traenckner, E.B. et al. (1995) EMBO J 14, 2876-83.
	7. Scherer, D.C. et al. (1995) Proc Natl Acad Sci USA 92, 11259-63.
	8. Chen, Z.J. et al. (1996) <i>Cell</i> 84, 853-62.
	9. Senftleben, U. et al. (2001) Science 293, 1495-9.
	10. Coope, H.J. et al. (2002) <i>EMBO J</i> 21, 5375-85.
	11. Xiao, G. et al. (2001) Mol Cell 7, 401-9.

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 IP: Immunoprecipitation
Cross-Reactivity Key	

3/23/24, 11:13 AM	Phospho-NF-κB2 p100 (Ser866/870) Antibody (#4810) Datasheet Without Images Cell Signaling Technolo 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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