## III.A.

## Phospho-RelB (Ser552) (D41B9) XP<sup>®</sup> Rabbit mAh



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

<b>Applications:</b> W, IP, IF-IC, FC-FP	Reactivity: H M	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 70	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #Q01201	<b>Entrez-Gene Id:</b> 5971
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized)			<b>Dilution</b> 1:1000 1:100 1:400 1:400 - 1:1600	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		Phospho-RelB (Ser552) (D41B9) $XP^{\otimes}$ Rabbit mAb detects endogenous levels of RelB only when phosphorylated at Ser552.				
Species predict based on 100% homology		Rat, Monkey, Bovine,	Dog			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser552 of mouse RelB protein.				
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 IκB inhibitory proteins (3-5). NF-κB-activating agents can induce the phosphorylation of IκB 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).				
		p52 NF-кВ subunits to	regulate transcript ses and hematopoie	canonical signaling, formical signaling, formi	e significantly impa	ired in
Background Re	ferences	1. Baeuerle, P.A. and Henkel, T. (1994) <i>Annu Rev Immunol</i> 12, 141-79. 2. Baeuerle, P.A. and Baltimore, D. (1996) <i>Cell</i> 87, 13-20. 3. Haskill, S. et al. (1991) <i>Cell</i> 65, 1281-9. 4. Thompson, J.E. et al. (1995) <i>Cell</i> 80, 573-82. 5. Whiteside, S.T. et al. (1997) <i>EMBO J</i> 16, 1413-26. 6. Traenckner, E.B. et al. (1995) <i>EMBO J</i> 14, 2876-83. 7. Scherer, D.C. et al. (1995) <i>Proc Natl Acad Sci USA</i> 92, 11259-63. 8. Chen, Z.J. et al. (1996) <i>Cell</i> 84, 853-62. 9. Senftleben, U. et al. (2001) <i>Science</i> 293, 1495-9. 10. Coope, H.J. et al. (2002) <i>EMBO J</i> 21, 5375-85. 11. Xiao, G. et al. (2001) <i>Mol Cell</i> 7, 401-9. 12. Ryseck, R.P. et al. (1992) <i>Mol Cell Biol</i> 12, 674-84. 13. Bours, V. et al. (1994) <i>Oncogene</i> 9, 1699-702. 14. Weih, F. et al. (1995) <i>Cell</i> 80, 331-40. 15. Burkly, L. et al. (1995) <i>Nature</i> 373, 531-6.				

16. Marienfeld, R. et al. (2001) Oncogene 20, 8142-7.

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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 IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC-

FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key H: Human M: Mouse

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