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Applications: W, IP, ChIP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 62	Source/Isotype: Rabbit IgG	UniProt ID: #Q16254	Entrez-Gene Id: 1874		
Product Usage Information		Application Western Blotting Immunoprecipitation Chromatin IP			Dilution 1:1000 1:50 1:50			
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		E2F4 (E3G2G) Rabbit mAb recognizes endogenous levels of total E2F4 protein.						
Source / Purification Monoclonal antibody is produced by residues surrounding Leu405 of hum			produced by imm eu405 of human E	nmunizing animals with a synthetic peptide corresponding to n E2F4 protein.				
Background		The E2F family consists of 8 transcription factors that regulate genes that control cell cycle progression by complexing with DP and Rb proteins (1-4). E2F transcriptional activation is generally opposed by associating with RB proteins, pRB, p107, and p130 (5-7). E2F-1, -2, and -3a function as activators that can help quiescent cells enter S phase, while E2F-3b, -4, and -5 repress cell growth through the recruitment of HDAC's and other corepressors to target genes (8-10). E2F-6 diverges considerably from other family members, and has repressive properties governed not through interaction with Rb proteins, but by recruiting the polycomb repressive complex (11,12). E2F-7, and -8 are unique in that they have two DNA-binding domains and do not heterodimerize with DP proteins. These E2F family members repress transcription and delay progression of the cell cycle through the regulation of E2F-1 (13-15)						
Background Re	ferences	1. Nevins, J.R. (1992) <i>Na</i> 2. Wu, C.L. et al. (1995) <i>J</i> 3. Huber, H.E. et al. (199 4. Rogers, K.T. et al. (199 5. Shirodkar, S. et al. (199 6. Hiebert, S.W. et al. (197 7. Dyson, N. (1998) <i>Gen</i> 8. DeGregori, J. et al. (1996) 9. Lukas, J. et al. (1996) 10. Meloni, A.R. et al. (11 11. Trimarchi, J.M. et al. 12. Trimarchi, J.M. et al. 13. Logan, N. et al. (200 14. Logan, N. et al. (200	ture 358, 375-6. Mol Cell Biol 15, 29 93) Proc Natl Acad 96) Proc Natl Acad 92) Cell 68, 157-66 992) Genes Dev 6, 992) Genes Dev 6, 997) Proc Natl Aca Mol Cell Biol 16, 11 999) Proc Natl Aca (1998) Proc Natl A (2001) Proc Natl A (2001) Proc Natl A (3) Oncogene 23, 5 5) Oncogene 24, 5	536-46. <i>Sci U S A</i> 90, 3525-9. <i>Sci U S A</i> 93, 7594-9. 5. 177-85. 2. <i>d Sci U S A</i> 94, 7245-50. 347-57. <i>d Sci U S A</i> 96, 9574-9. <i>Icad Sci U S A</i> 96, 2850-5. <i>Icad Sci U S A</i> 98, 1519-2. 138-50. 1000-4. <i>Cell</i> 14, 1-3.	4.			
Species Reactiv	rity	Species reactivity is det	ermined by testing	g in at least one approve	d application (e.g.,	western blot).		
Western Blot B	uffer	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 Ke	ey	W: Western Blotting IP:	: Immunoprecipita	tion ChIP: Chromatin IP				
Cross-Reactivit	у Кеу	H: Human M: Mouse R: Rat Mk: Monkey						
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