KAP-1 Antibody





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Applications: W, IP, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 100	Source/Isotype: Rabbit	UniProt ID: #Q13263	Entrez-Gene Id: 10155		
Product Usage Information	Product Usage Application		istry)	Dilution 1:1000 1:50 1:100 - 1:400				
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store a 20°C. Do not aliquot the antibody.				ycerol. Store at –		
Specificity/Sensitivity		KAP-1 Antibody detects endogenous levels of total KAP-1 protein.						
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acids near the carboxy terminus of human KAP-1. Antibodies are purified by peptide affinity chromatography.						
Background		KAP-1 is a member of the TIF1 (transcriptional intermediary factor 1) family, a group of transcriptional regulators that play key roles in development and differentiation. Members of this family are characterized by the presence of two conserved motifs – an N-terminal RING-B box-coiled-coil motif and a C-terminal PHD finger and bromodomain unit (1,2). KAP-1 is a corepressor for KRAB (Kruppel associated box) domain containing zinc finger proteins. The KRAB domain containing zinc finger proteins are a large group of transcription factors that are vertebrate-specific, varied in their expression patterns between species, and thought to regulate gene transcription programs that control speciation (3,4).KAP-1 has been shown to be essential for early embryonic development and spermatogenesis (6,5). It functions to either activate or repress transcription in response to environmental or developmental signals by chromatin protein (HP1) is essential for transcriptional repression, and for progression through differentiation of F9 embryonic carcinoma cells (6,7). KAP-1 also plays a role in the DNA damage response. Phosphorylation of KAP-1 on Ser824 occurs in an ATM-dependent manner in response to genotoxic stress and is thought to be essential for chromatin relaxation, which is in turn required for the DNA damage response (8).						
Background Re	eferences	 Le Douarin, B. et al. (1995) <i>EMBO J.</i> 14, 2020-2033. Le Douarin, B. et al. (1996) <i>EMBO J.</i> 15, 6701-6715. Friedman, J.R. et al. (1996) <i>Genes Dev.</i> 10, 2067-2078. Krebs, C.J. et al. (2005) <i>Genomics</i> 85, 752-761. Weber, P. et al. (2002) <i>Development</i> 129, 2329-2337. Cammas, F. et al. (2004) <i>Genes Dev.</i> 18, 2147-2160. Cammas, F. et al. (2007) <i>Differentiation</i> 75, 627-37. Ziv, Y. et al. (2006) <i>Nat. Cell Biol.</i> 8, 870-876. 						
Species Reactiv	vity	Species reactivity is de	termined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications K	ey	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivit	су Кеу	H: Human M: Mouse R: Rat Mk: Monkey						
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