CHAF1A (D77D5) XP[®] Rabbit mAb





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Applications: W, IP, IF-IC	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 145	Source/Isotype: Rabbit IgG	UniProt ID: #Q13111	Entrez-Gene Id: 10036		
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence	(Immunocytochem	istry)		Dilution 1:1000 1:100 1:200		
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/Sen	sitivity	ty CHAF1A (D77D5) XP [®] Rabbit mAb detects endogenous levels of total CHAF1A protein.						
Source / Purific	/ Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro303 of human CHAF1A protein.				orresponding to			
Background		Chromatin assembly factor 1 (CAF-1) is a histone H3/H4 chaperone complex that functions in de novo assembly of nucleosomes during DNA replication and nucleotide excision repair (1). Nucleosome assembly is a two-step process, involving initial deposition of a histone H3/H4 tetramer onto DNA, followed by the deposition of a pair of histone H2A/H2B dimers (1). CAF-1 interacts with PCNA and localizes to DNA replication and DNA repair foci, where it functions to assemble newly synthesized histone H3/H4 tetramers onto replicating DNA (2-6). Assembly of histone H2A/H2B dimers requires additional assembly factors. The CAF-1 complex consists of three proteins: CHAF1A (p150), CHAF1B (p60) and RBAP48 (p48 or RBBP4). CHAF1A and CHAF1B proteins are specific for the CAF-1 complex, while RBAP48 is a component of multiple chromatin modifying complexes (1). CHAF1A and CHAF1B expression levels correlate with cellular proliferation and both proteins are significantly down-regulated in quiescent cells (7).						
Background References 1. Adams, C.R. and Kamakaka, R.T. (1999) Curr Opin Genet Dev 9, 185-90. 2. Smith, S. and Stillman, B. (1989) Cell 58, 15-25. 3. Smith, S. and Stillman, B. (1991) EMBO J 10, 971-80. 4. Shibahara, K. and Stillman, B. (1999) Cell 96, 575-85. 5. Moggs, J.G. et al. (2000) Mol Cell Biol 20, 1206-18. 6. Gaillard, P.H. et al. (1996) Cell 86, 887-96. 7. Polo, S.E. et al. (2004) Cancer Res 64, 2371-81.								
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved 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	≥y	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivit	у Кеу	H: Human Mk: Monkey						
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