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		Application				Dilution
Information		Western Blotting				1:1000
		Immunoprecipitation				1:100
		Immunofluorescence (Immunocytochemistry)				1:200
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		CHAF1A (D77D5) XP^{\otimes} Rabbit mAb detects endogenous levels of total CHAF1A protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro303 of human CHAF1A protein.				
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		 Adams, C.R. and Kamakaka, R.T. (1999) Curr Opin Genet Dev 9, 185-90. Smith, S. and Stillman, B. (1989) Cell 58, 15-25. Smith, S. and Stillman, B. (1991) EMBO J 10, 971-80. Shibahara, K. and Stillman, B. (1999) Cell 96, 575-85. Moggs, J.G. et al. (2000) Mol Cell Biol 20, 1206-18. Gaillard, P.H. et al. (1996) Cell 86, 887-96. Polo, S.E. et al. (2004) Cancer Res 64, 2371-81. 				
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 TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				/ //

Applications Key

W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human Mk: Monkey

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