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CHAF1A (D77D5) XP® Rabbit mAb



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Applications: WB, 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	Ар	Application				Dilution
	We	stern Blotting				1:1000
	Imr	nunoprecipitation				1:100
	Imr	munofluorescence (Immunocytochen	nistry)		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® Rabbit mAb detects endogenous levels of total CHAF1A pro					of total CHAF1A prote	in.
Source / Purificati		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro303 of human CHAF1A protein.				
Background	asse asse by ti DNA tetra facto or R com	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 Refer	2. S 3. S 4. S 5. M 6. G	 Adams, C.R. and Kamakaka, R.T. (1999) <i>Curr Opin Genet Dev</i> 9, 185-90. Smith, S. and Stillman, B. (1989) <i>Cell</i> 58, 15-25. Smith, S. and Stillman, B. (1991) <i>EMBO J</i> 10, 971-80. Shibahara, K. and Stillman, B. (1999) <i>Cell</i> 96, 575-85. Moggs, J.G. et al. (2000) <i>Mol Cell Biol</i> 20, 1206-18. Gaillard, P.H. et al. (1996) <i>Cell</i> 86, 887-96. Polo, S.E. et al. (2004) <i>Cancer Res</i> 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 5% w/v BSA, 1X TBS,

0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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Limited Uses

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