Nucleolin (D4C7O) Rabbit mAb



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Applications: WB, IP, IHC-P, IF-IC, FC-FP, eCLIP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 100	Source/Isotype: Rabbit IgG	UniProt ID: #P19338	Entrez-Gene Id 4691	
Product Usage	Aŗ	pplication		Dilution			
Information	W	Western Blotting				1:1000	
	lm	munoprecipitation			1:50		
	Im	Immunohistochemistry (Paraffin)				1:200 - 1:800	
	Im	munofluorescence (Immunocytochen	1:800 - 1:1600			
	Flo	ow Cytometry (Fixed	//Permeabilized)	1:400 - 1:1600			
	eC	eCLIP			1:200		
		For more information about eCLIP and the RBP-eCLIP kit, please visit Eclipse Bioinnovations.					
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. <i>Do not aliquot the antibody.</i>					
	For	For a carrier free (BSA and azide free) version of this product see product #16864.					
Specificity / Sensitiv		cleolin (D4C7O) Rab IHC-P is human only	•	total nucleolin protein. Species reactivity			
Source / Purification		Monoclonal antibody is produced by immunizing animals with a sy residues surrounding Gly53 of human nucleolin protein.				ynthetic peptide corresponding to	
Background	play pre the acti dup nuc rec hTE cha Fer	Nucleolin is a multi-functional protein that is one of the major components of the nucleoli (1). Nucleolin plays an essential role in various steps of ribosome biogenesis including rRNA synthesis, processing of pre-rRNA, pre-ribosomal RNA assembly, and transport of ribosomal proteins out of the nucleus (1-3). While the main function of nucleolin is ribosome biogenesis, it plays an important role in various other nuclear activities. Down regulation of nucleolin leads to increased expression of p53, defects in genome duplication, and a delay at prometaphase during mitosis leading to cell cycle arrest (4-6). In addition, nucleolin has been found in a complex with Rad51 and may participate in DNA repair by homologous recombination (7). Nucleolin binds to the catalytic subunit of the human telomerase reverse transcriptase, hTERT, and is thought to be involved in telomere maintenance (8). Nucleolin also possesses histone chaperone activity and is able to enhance the chromatin remodeling efficiency of SWItch/Sucrose Non Fermentable (SWI/SNF) and ATP-dependent chromatin-assembly factor (ACF), remove histone H2A-H2B dimers from nucleosomes, and facilitate the passage of RNA polymerase through chromatin (9).					
Background Referen	1. Tajrishi, M.M. et al. (2011) <i>Commun Integr Biol</i> 4, 267-75. 2. Ginisty, H. et al. (1999) <i>J Cell Sci</i> 112 (Pt 6), 761-72. 3. Srivastava, M. and Pollard, H.B. (1999) <i>FASEB J</i> 13, 1911-22. 4. Takagi, M. et al. (2005) <i>Cell</i> 123, 49-63. 5. Ugrinova, I. et al. (2007) <i>BMC Mol Biol</i> 8, 66. 6. Ma, N. et al. (2007) <i>J Cell Sci</i> 120, 2091-105. 7. De, A. et al. (2006) <i>Biochem Biophys Res Commun</i> 344, 206-13. 8. Khurts, S. et al. (2004) <i>J Biol Chem</i> 279, 51508-15.						

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

9. Angelov, D. et al. (2006) EMBO J 25, 1669-79.

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Nucleolin (D4C70) Rabbit mAb (#14574) Datasheet Without Images Cell Signaling Technology

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 Key

WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)

IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)

eCLIP: eCLIP

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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