## ្ត្រី Nucleolin (E5M7K) Mouse mAb





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Applications: W, IF-IC	<b>Reactivity:</b> H Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 100	Source/Isotype: Mouse IgG1	<b>UniProt ID:</b> #P19338	Entrez-Gene Id: 4691		
Product Usage Information		<b>Application</b> Western Blotting Immunofluorescence	(Immunocytochem	istry)		<b>Dilution</b> 1:1000 1:50		
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/Sens	itivity	Nucleolin (E5M7K) Mouse mAb recognizes endogenous levels of total nucleolin protein.						
Source / Purifica	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly53 of human nucleolin protein.						
Background		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 Ref	erences	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. 9. Angelov, D. et al. (2006) <i>EMBO J</i> 25, 1669-79.						
Species Reactivi	tv	Species reactivity is de	etermined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot Bu	-	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	y	W: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivity	' Key	H: Human Mk: Monkey						
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