RecQL1 (Q1N3) Mouse mAb



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Applications: W, IF-IC	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 70	Source/Isotype: Mouse IgG1	UniProt ID: #P46063	Entrez-Gene Id: 5965		
Product Usage Information	2	Application Western Blotting Immunofluorescence	e (Immunocytochem	istry)		Dilution 1:1000 1:80		
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/Ser	sitivity	RecQL1 (Q1N3) Mouse mAb detects endogenous levels of total RecQL1 protein.						
Source / Purifi	cation	Monoclonal antibody is produced by immunizing animals with human RecQL1 recombinant protein.						
Background		The RecQ family is a group of DNA helicases that play an important role in global genomic stability (1). Mutations in three of the five known human RecQ proteins (BLM, WRN and RECQL4) give rise to clinically distinct disorders that are characterized by features such as premature aging and predisposition to cancer (2,3). The clinical distinction of each disease associated with these mutations points to distinct roles that members of this helicase family play in DNA metabolism. RecQL1 is the most abundant protein of the RecQ family and was the first family member to be discovered. No disease associations have been reported with RecQL1 and its biological activities are not well understood (4). It has recently been shown that depletion of RecQL1 negatively affects genomic maintenance and cellular proliferation – which may point to a role in DNA damage repair and cell cycle progression (5,6). Upregulation of RecQL1 along with other RecQ family members has been reported in cells in response to oncogenic viral infection (7).						
Background R	eferences	1. Chu, W.K. and Hick 2. Hanada, K. and Hic 3. Dietschy, T. et al. (2 4. Seki, M. et al. (1994 5. Sharma, S. and Bro 6. Sharma, S. and Bro 7. Kawabe, T. et al. (20	kson, I.D. (2007) <i>Ce</i> 007) <i>Cell Mol Life So</i> <i>J Biochem</i> 115, 52 sh, R.M. (2007) <i>PLO</i> sh, R.M. (2008) <i>Cell</i>	<i>II Mol Life Sci</i> 64, 2306-22 ci 64, 796-802. 3-31. 5 <i>One</i> 2, e1297. <i>Cycle</i> 7, 989-1000.	2.			
Species Reacti	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot E	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 K	ey	W: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivi	ty Key	H: Human						
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