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RecQL1 (Q1N3) Mouse mAb



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Applications: Entrez-Gene Id: Reactivity: Sensitivity: MW (kDa): Source/Isotype: **UniProt ID:** WB, IF-IC Н Endogenous 70 Mouse IgG1 #P46063 5965 **Product Usage** Application Dilution Information 1:1000 Western Blotting Immunofluorescence (Immunocytochemistry) 1:80 Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than **Storage** 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody. Specificity / Sensitivity RecQL1 (Q1N3) Mouse mAb detects endogenous levels of total RecQL1 protein. Source / Purification Monoclonal antibody is produced by immunizing animals with human RecQL1 recombinant protein.

The RecQ family is a group of DNA helicases that play an important role in global genomic stability (1). **Background** 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 References

- 1. Chu, W.K. and Hickson, I.D. (2009) Nat Rev Cancer 9, 644-54.
- 2. Hanada, K. and Hickson, I.D. (2007) Cell Mol Life Sci 64, 2306-22.
- 3. Dietschy, T. et al. (2007) Cell Mol Life Sci 64, 796-802.
- 4. Seki, M. et al. (1994) J Biochem 115, 523-31.
- 5. Sharma, S. and Brosh, R.M. (2007) PLoS One 2, e1297.
- 6. Sharma, S. and Brosh, R.M. (2008) Cell Cycle 7, 989-1000.

7. Kawabe, T. et al. (2000) Oncogene 19, 4764-72.

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

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 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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