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RAD18 Antibody (monoclonal) (M03)

Mouse monoclonal antibody raised against a partial recombinant RAD18.
Catalog # AT3546a

Product Information

Application	WB, IF
Primary Accession	Q9NS91
Other Accession	NM_020165
Reactivity	Human, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	2B9
Calculated MW	56223

Additional Information

Gene ID	56852
Other Names	E3 ubiquitin-protein ligase RAD18, 632-, Postreplication repair protein RAD18, hHR18, hRAD18, RING finger protein 73, RAD18, RNF73
Target/Specificity	RAD18 (NP_064550, 332 a.a. ~ 430 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	RAD18 Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

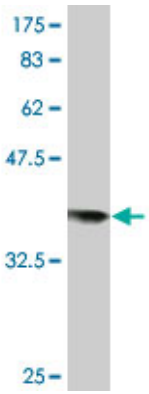
The protein encoded by this gene is highly similar to S. cerevisiae DNA damage repair protein Rad18. Yeast Rad18 functions through its interaction with Rad6, which is an ubiquitin-conjugating enzyme required for post-replication repair of damaged DNA. Similar to its yeast counterpart, this protein is able to interact with the human homolog of yeast Rad6 protein through a conserved ring-finger motif. Mutation of this motif results in defective replication of UV-damaged DNA and hypersensitivity to multiple mutagens.

References

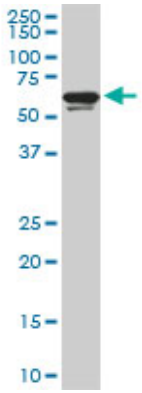
A Large-scale genetic association study of esophageal adenocarcinoma risk. Liu CY, et al. Carcinogenesis,

2010 Jul. PMID 20453000.RAD18-dependent recruitment of SNM1A to DNA repair complexes by a ubiquitin-binding zinc finger. Yang K, et al. J Biol Chem, 2010 Jun 18. PMID 20385554.Multiple genetic variants in telomere pathway genes and breast cancer risk. Shen J, et al. Cancer Epidemiol Biomarkers Prev, 2010 Jan. PMID 20056641.Mutation analysis of Rad18 in human cancer cell lines and non small cell lung cancer tissues. Nakamura T, et al. J Exp Clin Cancer Res, 2009 Jul 25. PMID 19630985.Physical and functional interaction between WRNIP1 and RAD18. Yoshimura A, et al. Genes Genet Syst, 2009 Apr. PMID 19556710.

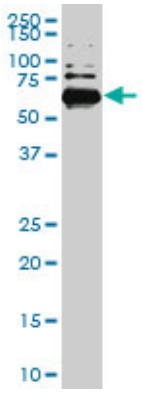
Images



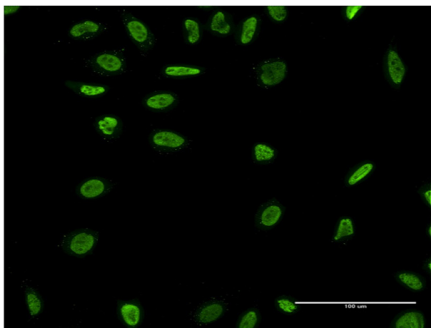
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .



RAD18 monoclonal antibody (M03), clone 2B9. Western Blot analysis of RAD18 expression in PC-12 ((Cat # AT3546a)



RAD18 monoclonal antibody (M03), clone 2B9. Western Blot analysis of RAD18 expression in Hela S3 NE ((Cat # AT3546a)



Immunofluorescence of monoclonal antibody to RAD18 on HeLa cell . [antibody concentration 10 ug/ml]

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.