

RAD54B Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant RAD54B.

Catalog # AT3552a

Product Information

Application	WB, IF, E
Primary Accession	O95073
Other Accession	BC001965
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	4A7
Calculated MW	34768

Additional Information

Gene ID	100861412
Other Names	Fibrinogen silencer-binding protein, FSBP
Target/Specificity	RAD54B (AAH01965, 801 a.a. ~ 910 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 E~~N/A
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	RAD54B Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

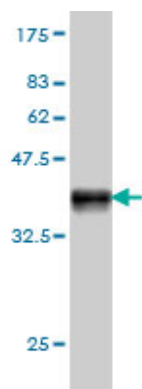
The protein encoded by this gene belongs to the DEAD-like helicase superfamily. It shares similarity with *Saccharomyces cerevisiae* RAD54 and RDH54, both of which are involved in homologous recombination and repair of DNA. This protein binds to double-stranded DNA, and displays ATPase activity in the presence of DNA. This gene is highly expressed in testis and spleen, which suggests active roles in meiotic and mitotic recombination. Homozygous mutations of this gene were observed in primary lymphoma and colon cancer.

References

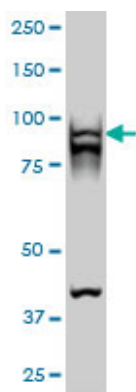
Gamma-Radiation Sensitivity and Polymorphisms in RAD51L1 Modulate Glioma Risk. Liu Y, et al. Carcinogenesis, 2010 Jul 7. PMID 20610542. Variation within DNA repair pathway genes and risk of multiple

sclerosis. Briggs FB, et al. Am J Epidemiol, 2010 Jul 15. PMID 20522537. Polymorphic variants in hereditary pancreatic cancer genes are not associated with pancreatic cancer risk. McWilliams RR, et al. Cancer Epidemiol Biomarkers Prev, 2009 Sep. PMID 19690177. Explorative study to identify novel candidate genes related to oxaliplatin efficacy and toxicity using a DNA repair array. Kweekel DM, et al. Br J Cancer, 2009 Jul 21. PMID 19536092. Specific synthetic lethal killing of RAD54B-deficient human colorectal cancer cells by FEN1 silencing. McManus KJ, et al. Proc Natl Acad Sci U S A, 2009 Mar 3. PMID 19218431.

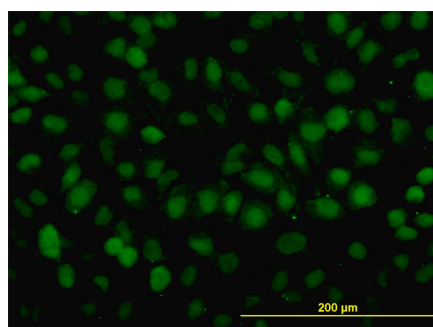
Images



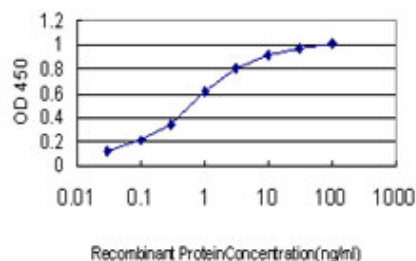
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.73 KDa) .



RAD54B monoclonal antibody (M01), clone 4A7 Western Blot analysis of RAD54B expression in HeLa S3 NE ((Cat # AT3552a)



Immunofluorescence of monoclonal antibody to RAD54B on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged RAD54B is approximately 0.03ng/ml as a capture antibody.

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