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MRE11A Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant MRE11A.
Catalog # AT2901a

Specification

MRE11A Antibody (monoclonal) (M01) - Product Information

Application	**WB**
Primary Accession	P49959
Other Accession	BC005241
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a kappa**
Calculated MW	**80593**

MRE11A Antibody (monoclonal) (M01) - Additional Information

Gene ID 4361

Other Names
Double-strand break repair protein MRE11A, Meiotic recombination 11 homolog 1, MRE11 homolog 1, Meiotic recombination 11 homolog A, MRE11 homolog A, MRE11A, HNGS1, MRE11

Target/Specificity
MRE11A (AAH05241, 1 a.a. ~ 206 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

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
MRE11A Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

MRE11A Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot

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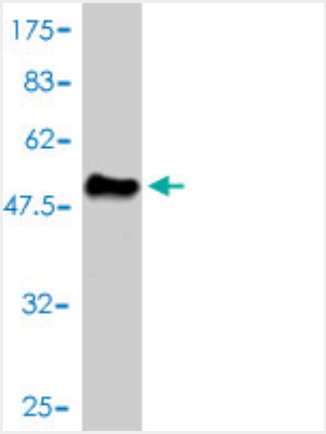
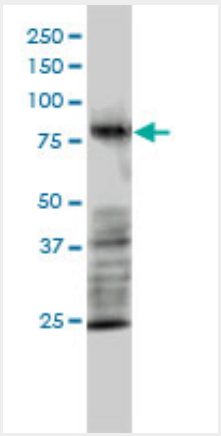
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MRE11A Antibody (monoclonal) (M01) - Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (48.4 KDa) .



MRE11A monoclonal antibody (M01), clone 1D8-A6 Western Blot analysis of MRE11A expression in HL-60 ((Cat # AT2901a)

MRE11A Antibody (monoclonal) (M01) - Background

This gene encodes a nuclear protein involved in homologous recombination, telomere length maintenance, and DNA double-strand break repair. By itself, the protein has 3' to 5' exonuclease activity and endonuclease activity. The protein forms a complex with the RAD50 homolog; this complex is required for nonhomologous joining of DNA ends and possesses increased single-stranded DNA endonuclease and 3' to 5' exonuclease activities. In conjunction with a DNA ligase, this protein promotes the joining of noncomplementary ends in vitro using short homologies near the ends of the DNA fragments. This gene has a pseudogene on chromosome 3. Alternative splicing of this gene results in two transcript variants encoding different isoforms.

MRE11A Antibody (monoclonal) (M01) - 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.Comprehensive screen of genetic variation in DNA repair pathway genes and postmenopausal breast cancer risk. Monsees GM, et al. Breast Cancer Res Treat, 2010 May 23. PMID 20496165.A divalent FHA/BRCT-binding mechanism couples the MRE11-RAD50-NBS1 complex to damaged chromatin. Hari FJ, et al. EMBO Rep, 2010 May. PMID 20224574.Analysis of the expression of human tumor antigens in ovarian cancer tissues. Ali-Fehmi R, et al. Cancer Biomark, 2010. PMID 20164540.