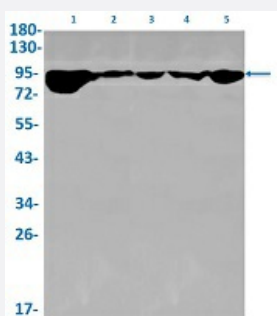


RecomAb™

MRE11 recombinant monoclonal antibody, clone R03-6H9

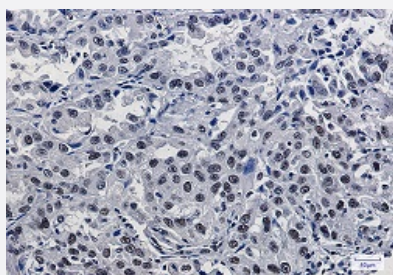
Catalog # RAB02095 Size 100 uL

Applications



Western Blot

Western Blot analysis of Lane 1: K562, Lane 2: rat brain, Lane 3: C6 and Lane 4: Hela lysates with MRE11 recombinant monoclonal antibody, clone R03-6H9 (Cat # RAB02095).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human lung cancer with MRE11 recombinant monoclonal antibody, clone R03-6H9 (Cat # RAB02095). High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human MRE11.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to human MPZ.
Theoretical MW (kDa)	Calculated MW: 81 kD
Reactivity	Human, Mouse, Rat
Form	Liquid

Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (1:50-1:100) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at -20 °C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

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- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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Gene Info — MRE11A

Entrez GeneID	4361
Protein Accession#	P49959
Gene Name	MRE11A
Gene Alias	ATLD, HNGS1, MRE11, MRE11B
Gene Description	MRE11 meiotic recombination 11 homolog A (S. cerevisiae)
Omim ID	600814 604391
Gene Ontology	Hyperlink

Gene Summary

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. [provided by RefSeq]

Other Designations

AT-like disease|DNA recombination and repair protein|double-strand break repair protein MRE11A|endo/exonuclease Mre11|meiotic recombination 11 homolog A

Pathway

- [Homologous recombination](#)
- [Non-homologous end-joining](#)

Disease

- [Adenocarcinoma](#)
- [Ataxia telangiectasia](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [DNA Damage](#)
- [Genetic Predisposition to Disease](#)
- [Glioma](#)
- [Hematologic Diseases](#)
- [Hodgkin Disease](#)
- [Kidney Failure](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)

- [Multiple Sclerosis](#)
- [Neoplasms](#)
- [Occupational Diseases](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Spinocerebellar ataxia](#)
- [Urinary Bladder Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)