

MRE11 Antibody

Catalog No: #25027

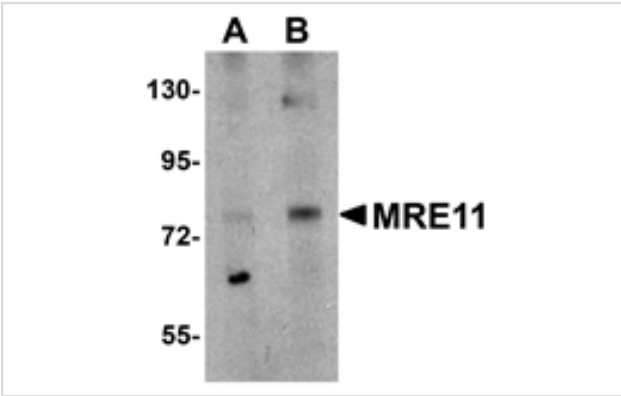


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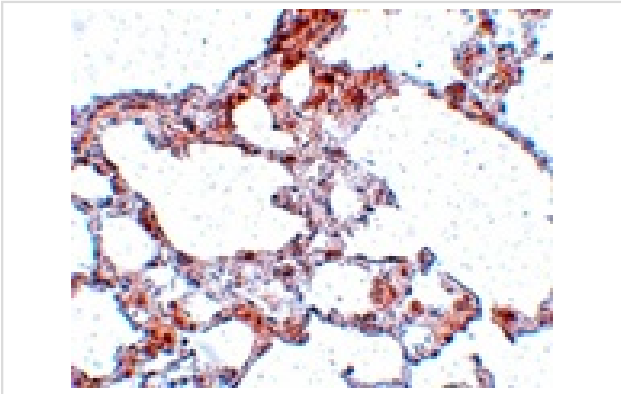
Description

Product Name	MRE11 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA WB IHC
Species Reactivity	Hu Ms Rt
Immunogen Type	Peptide
Immunogen Description	Raised against a 14 amino acid peptide from near the amino terminus human MRE11.
Target Name	MRE11
Other Names	Meiotic recombination 11 homolog, MRE11A, MRE11B, ATLD, HNGS
Accession No.	Swiss-Prot:P49959Gene ID:4361
Uniprot	P49959
GeneID	4361;
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Images



Western blot analysis of MRE11 in rat lung tissue lysate with MRE11 antibody at (A) 1 and (B) 2 ug/mL.



Immunohistochemistry of MRE11 in rat lung tissue with MRE11 antibody at 5 ug/mL.

Background

MRE11 is involved in the repair of DNA double strand breaks as part of a complex that includes the Rad50 and NBS1 protein and is thought to act in the same pathway as the A-T mutated (ATM) protein. 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 non-homologous 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. Mutations in this protein result in a novel ataxia telangiectasia-like disorder (ATLD). Unlike the ATM protein, MRE11 is necessary proper mammalian development.

Note: This product is for in vitro research use only