



Rabbit Anti-Human MRE11 monoclonal antibody, clone G.620.5 (CABT-L1484)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	MRE11
Immunogen	Synthetic peptide corresponding to residues surrounding Lys496 of human Mre11A
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Clone	G.620.5
Purification	Affinity Purified
Conjugate	Unconjugated
Applications	IHC-F, IHC-P, IP, WB
Format	Liquid
Buffer	0.01M HEPES, pH 7.5, with 0.15M NaCl, 100µg/ml BSA, 50% glycerol
Preservative	See individual product datasheet
Storage	-20°C

BACKGROUND

Introduction	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'
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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.

Keywords	AT like disease;Ataxia telangiectasia disorder like;Ataxia-telangiectasia disorder-like;ATLD;DNA recombination and repair protein;Double strand break repair protein MRE11A;Double-strand break repair protein MRE11A;endo/exonuclease Mre11;HNGS1;meiotic recombination (<i>S. cerevisiae</i>)22homolog A
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GENE INFORMATION

Entrez Gene ID	4361
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UniProt ID	P49959
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