OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for TA319244

MRE11 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	ELISA: 1:10,000 - 1:50,000, WB: 1:500 - 1:2,000
Reactivity:	Mouse
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a recombinant protein corres-ponding to amino acids 68-706 of mouse Mre11 protein.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	MRE11 homolog A, double strand break repair nuclease
Database Link:	NP_005581 Entrez Gene 17535 Mouse P49959
Synonyms:	ATLD; HNGS1; MRE11; MRE11B

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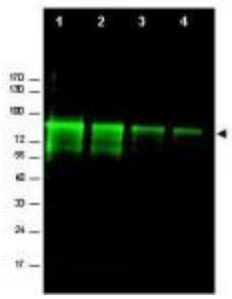
Note: This antibody is suitable for Cancer, Immunology and Nuclear Signaling research. Mre11 is a component of the MRN complex (Mre11/Rad50/Nbs1), which plays a central role in double-strand break (DSB) repair, DNA recombination, maintenance of telomere integrity and meiosis. The complex possesses single-strand endonuclease activity and double-strand-specific 3'-5' exonuclease activity, which are provided by MRE11A. RAD50 may be required to bind DNA ends and hold them in close proximity. This could facilitate searches for short or long regions of sequence homology in the recombining DNA templates, and may also stimulate the activity of DNA ligases and/or restrict the nuclease activity of MRE11A to prevent nucleolytic degradation past a given point. The complex may also be required for DNA damage signaling via activation of the ATM kinase. In telomeres the MRN complex may

Protein Families: Druggable Genome, Stem cell - Pluripotency

Protein Pathways: Homologous recombination, Non-homologous end-joining

Product images:



WB using Anti-Mre11 antibody shows detection of a band ~80 kDa corresponding to mouse Mre11 (arrowhead). Lanes 1-4 contain 0.5 ug, 0.3 ug, 0.1 ug and 0.05 ug of purified mouse Mre11 protein, respectively. After SDS-PAGE and transfer onto nitrocellulose, the membrane was blocked and then probed with the primary antibody diluted to 1:1,000 overnight at 4?. The membrane was then washed and reacted with a 1:10,000 dilution of IRDye800 conjugated Gt-a-Rabbit IgG [H&L] for 45 min at room temperature.