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Datasheet for ABIN129662

anti-Mre11 antibody (AA 68-706)

1 Image

Overview

Quantity:	100 µg
Target:	Mre11 (MRE11A)
Binding Specificity:	AA 68-706
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Mre11 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

Product Details

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a recombinant protein corresponding to amino acids 68-706 of mouse Mre11 protein. Immunogen type: Recombinant
Isotype:	IgG
Characteristics:	Concentration Definition: by UV absorbance at 280 nm

Target Details

Target:	Mre11 (MRE11A)
Alternative Name:	Mre11 (MRE11A Products)
Background:	This antibody is designed, produced, and is suitable for Cancer, Immunology and Nuclear

Target Details

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

Synonyms: AT like disease antibody, Ataxia telangiectasia disorder like antibody, Ataxia-telangiectasia disorder-like antibody, ATLD antibody, DNA recombination and repair protein antibody

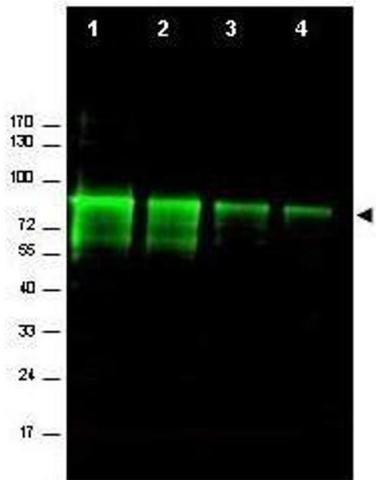
Gene ID:	4361, 18202590
UniProt:	Q61216
Pathways:	DNA Damage Repair

Application Details

Application Notes:	This affinity purified antibody has been tested for use in ELISA and western blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 80 kDa in size corresponding to Mre11 by western blotting in the appropriate cell lysate or extract.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.05 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	Sodium azide
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C



Western Blotting

Image 1. Western blot using Affinity Purified 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 4-20% 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°C. The membrane was then washed and reacted with a 1:10,000 dilution of IRDye800 conjugated Gt-a-Rabbit IgG [H&L] MX for 45 min at room temperature. IRDye800 fluorescence image was captured using the Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.