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# anti-Mre11 antibody (C-Term)

2 Images



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Overview	
Quantity:	100 μL
Target:	Mre11 (MRE11A)
Binding Specificity:	C-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Mre11 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)
Product Details	
Immunogen:	A synthesized peptide derived from human Mre11, corresponding to a region within C-terminal amino acids.
Isotype:	IgG
Specificity:	Mre11 Antibody detects endogenous levels of total Mre11.
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink <sup>TM</sup> Coupling Resin (Thermo Fisher Scientific).
Target Details	
Target:	Mre11 (MRE11A)
Alternative Name:	MRE11 (MRE11A Products)

# Target Details

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Description: Component of the MRN complex, 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 MRE11. 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 MRE11 to prevent nucleolytic degradation past a given point (PubMed:9651580, PubMed:9590181, PubMed:9705271, PubMed:11741547). The complex may also be required for DNA damage signaling via activation of the ATM kinase (PubMed:15064416). In telomeres the MRN complex may modulate t-loop formation (PubMed:10888888).

Gene: MRE11

Molecular Weight:

81 kDa

P49959

Gene ID:

4361

UniProt:
Pathways:

**DNA Damage Repair** 

# **Application Details**

Application Notes: WB 1:500	-1:1000, IF/ICC 1:100-1:500	), ELISA(peptide	) 1:20000-1:40000
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Restrictions: For Research Use only

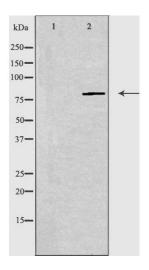
#### Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
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
Storage Comment:	Store at -20 °C. Stable for 12 months from date of receipt.

Expiry Date:

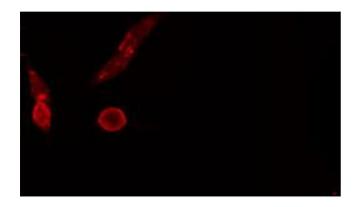
12 months

# **Images**



# **Western Blotting**

**Image 1.** Western blot analysis of extracts from RAW264.7 cells using MRE11A antibody.,The lane on the left is treated with the antigen-specific peptide.



# Immunofluorescence (fixed cells)

Image 2. ABIN6274694 staining NIH-3T3 cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100,then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody(Cat.# S0006), diluted at 1/600, was used as secondary antibody.