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Datasheet for ABIN6263350

## anti-Mre11 antibody (Internal Region)

### 3 Images

#### Overview

|                      |  |
|----------------------|--|
| Quantity:            | 100 µL   |
| Target:              | Mre11 (MRE11A)   |
| Binding Specificity: | Internal Region  |
| Reactivity:          | Human, Rat, Mouse  |
| Host:                | Rabbit   |
| Clonality:           | Polyclonal   |
| Conjugate:           | This Mre11 antibody is un-conjugated   |
| Application:         | Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC) |

#### Product Details

|                       |   |
|-----------------------|---|
| Immunogen:            | A synthesized peptide derived from human Mre11, corresponding to a region within the internal amino acids.                |
| Isotype:              | IgG   |
| Specificity:          | Mre11 Antibody detects endogenous levels of total Mre11.  |
| Predicted Reactivity: | Pig,Bovine,Horse,Sheep,Rabbit,Dog,Chicken,Xenopus   |
| Purification:         | The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific). |

#### Target Details

|         |                |
|---------|----------------|
| Target: | Mre11 (MRE11A) |
|---------|----------------|

## Target Details

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Alternative Name: MRE11 ([MRE11A Products](#))

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Background: 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

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Molecular Weight: 80 kDa

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Gene ID: 4361

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UniProt: [P49959](#)

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Pathways: [DNA Damage Repair](#)

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## Application Details

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Application Notes: WB 1:500-1:2000, IF/ICC 1:100-1:500, IHC 1:50-1:200, ELISA(peptide) 1:20000-1:40000

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Concentration: 1 mg/mL

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Buffer: Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.

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Preservative: Sodium azide

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Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

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Storage: -20 °C

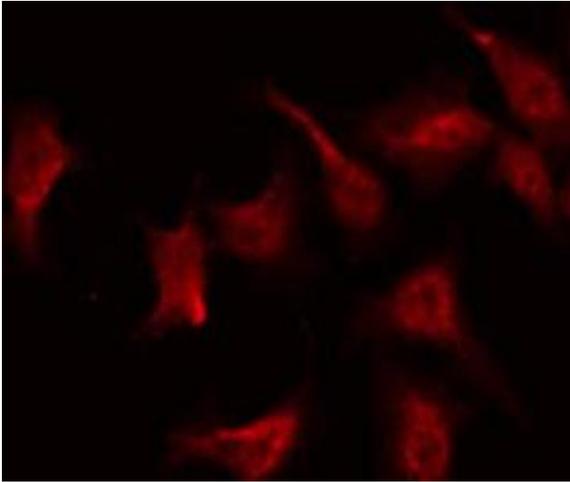
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## Handling

Storage Comment: Store at -20 °C. Stable for 12 months from date of receipt.

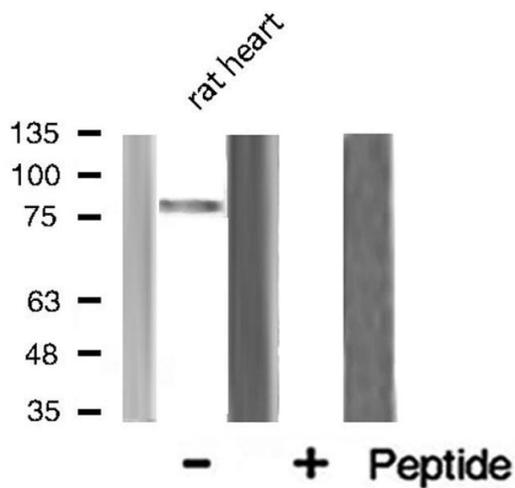
Expiry Date: 12 months

## Images



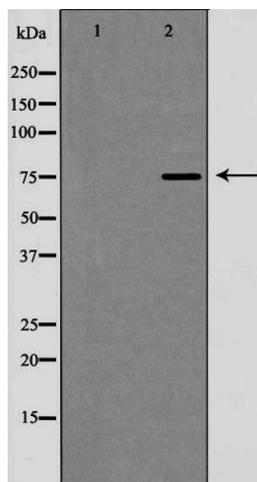
### Immunofluorescence (fixed cells)

**Image 1.** ABIN6268864 staining NIH-3T3 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) Ab, diluted at 1/600, was used as the secondary antibody.



### Western Blotting

**Image 2.** Western blot analysis of MRE11A expression in Rat heart lysate



### Western Blotting

**Image 3.** Western blot analysis of MRE11A expression in LOVO cells. The lane on the left is treated with the antigen-specific peptide.