

## Datasheet for ABIN2786814

# anti-Mre11 antibody (Middle Region)

2 Images



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| Quantity:            | 100 μL  |
|----------------------|---|
| Target:              | Mre11 (MRE11A)  |
| Binding Specificity: | Middle Region   |
| Reactivity:          | Human, Rat, Mouse, Dog, Rabbit, Guinea Pig, Cow, Horse, Pig |
| Host:                | Rabbit  |
| Clonality:           | Polyclonal  |
| Application:         | Western Blotting (WB)                                       |

# **Product Details**

| Immunogen:            | The immunogen is a synthetic peptide directed towards the middle region of human MRE11A                   |
|-----------------------|---|
| Sequence:             | RFRETRQKNT NEEDDEVREA MTRARALRSQ SEESASAFSA DDLMSIDLAE  |
| Predicted Reactivity: | Cow: 93%, Dog: 93%, Guinea Pig: 86%, Horse: 93%, Human: 100%, Mouse: 86%, Pig: 93%, Rabbit: 86%, Rat: 86% |
| Characteristics:      | This is a rabbit polyclonal antibody against MRE11A. It was validated on Western Blot.                    |
| Purification:         | Affinity Purified   |

## **Target Details**

| Target:           | Mre11 (MRE11A)  |
|-------------------|---|
| Alternative Name: | MRE11A (MRE11A Products)  |
| Background:       | 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' 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. Alias Symbols: ATLD, HNGS1, MRE11, MRE11B

Protein Interaction Partner: HUWE1, CIAO1, ATRX, BRCA1, RPA3, RPA2, RPA1, EED, ABCF1, C14orf166, RTCB, RPL26L1, NELFB, IGF2BP3, LRRFIP1, MAP7, EIF2B2, EIF2B3, YBX3, RPL27, RFC4, QARS, NMT1, HNRNPM, ILF2, HNRNPU, HNRNPA2B1, FLII, DHX9, DDX1, LMNA, PAN2,

Protein Size: 708

UBC, MCM2, GINS1, MDC1, RNF8, C

| Molecular Weight: | 80 kDa               |
|-------------------|----------------------|
| Gene ID:          | 4361                 |
| NCBI Accession:   | NM_005591, NP_005582 |
| UniProt:          | P49959               |
| Pathways:         | DNA Damage Repair    |

# **Application Details**

| Application Notes: | Optimal working dilutions should be determined experimentally by the investigator. |
|--------------------|--|
| Comment:           | Antigen size: 708 AA   |
| Restrictions:      | For Research Use only  |

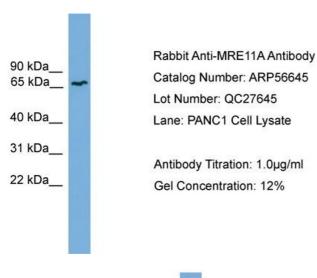
#### Handling

| Format:            | Liquid  |
|--------------------|---|
| Concentration:     | Lot specific  |
| Buffer:            | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose. |
| Preservative:      | Sodium azide  |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which                       |

## Handling

|                  | should be handled by trained staff only.  |
|------------------|---|
| Handling Advice: | Avoid repeated freeze-thaw cycles.  |
| Storage:         | -20 °C  |
| Storage Comment: | For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles. |

#### **Images**

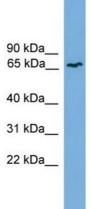


## **Western Blotting**

Image 1. WB Suggested Anti-MRE11A

Antibody Titration: 0.2-1 µg/mL ELISA Titer: 1:12500

Positive Control: PANC1 cell lysate



#### **Western Blotting**

Image 2. WB Suggested Anti-MRE11A Antibody Titration:

0.2-1 ug/ml

**ELISA Titer:** 1:12500

Positive Control: PANC1 cell lysate