Data Sheet (Cat.No.TMAC-02645)

Anti-MRE11 Antibody (6B152)

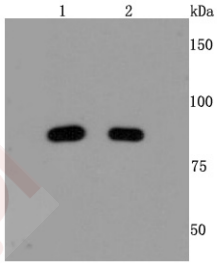
Product Details

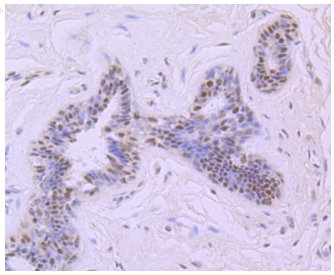
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 81 kDa.
Clone:	6B152
Purification:	ProA affinity purified

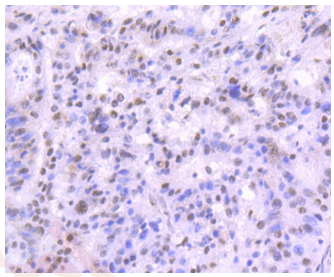
Applications

Verified Activity:

1. Western blot analysis of Mre11 on different cells lysates using anti-Mre11 antibody at 1/500 dilution. Positive control: Line 1: 293T, Line 2: Hela.
2. Immunohistochemical analysis of paraffin-embedded human breast cancer tissue using anti- Mre11 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human stomach cancer tissue using anti- Mre11 antibody. Counter stained with hematoxylin.







Application:	IHC,WB
Recommended	WB: 1:500-1000; IHC: 1:50-200

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P49959

Synonyms: AT like disease;endo/exonuclease Mre11;MRE 11b;DNA recombination and repair protein; meiotic recombination 11 homolog A (S. cerevisiae);MRE11 homolog A;MmMRE11A;Double strand break repair protein MRE11A;MRE11_HUMAN;OTTHUMP00000236831;MRE11 homolog 1; MRE11 meiotic recombination 11 homolog A;OTTHUMP00000236832;Meiotic recombination 11 homolog A;Ataxia telangiectasia disorder like;OTTHUMP00000236833;ATLD;MRE11A;MRE11 meiotic recombination 11 homolog A (S. cerevisiae);HNGS1;Meiotic recombination 11 homolog 1;MRE11b;Double-strand break repair protein MRE11A;OTTHUMP00000236830;meiotic recombination (S. cerevisiae) 11 homolog A;MRE 11a;Mre 11

Research Background

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. The complex may also be required for DNA damage signaling via activation of the ATM kinase. In telomeres the MRN complex may modulate t-loop formation.

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