

For Research Use Only

MRE11 Polyclonal antibody

Catalog Number:10744-1-AP

11 Publications



Basic Information

Catalog Number:

10744-1-AP

Size:

150ul , Concentration: 400 ug/ml by Nanodrop and 200 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1105

GenBank Accession Number:

BC005241

GeneID (NCBI):

4361

UNIPROT ID:

P49959

Full Name:

MRE11 meiotic recombination 11 homolog A (S. cerevisiae)

Calculated MW:

81 kDa

Observed MW:

81 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IHC, IF, ChIP

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Positive Controls:

WB : HEK-293 cells, HT-1376 cells, HeLa cells, HepG2 cells

IP : HeLa cells,

IHC : human lymphoma tissue,

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Background Information

Mre11 (meiotic recombination 11), also named as Mre11A, is a component of the MRN(MRE11/RAD50/NBS1) complex which is a versatile complex, playing a key role in the sensing, processing, and repair of DSBs. MRE11 possesses both endonuclease and 3'-5' exonuclease activity. It contains two DNA-binding domains (DBDs), enabling it to bind both single-stranded DNA (ssDNA) and double-stranded DNA (dsDNA). After DSBs, MRE11 is loaded onto DSBs sites and cleaves DNA by cooperating with CtIP (CtBP [C terminal binding protein] interacting protein) to initiate end resection. It's reported that MRE11 is over-expressed in breast cancers. (PMID:38128537; 22914783)

Notable Publications

| Author | Pubmed ID | Journal | Application |
|-----------|-----------|----------------|-------------|
| Tao Zhang | 36050397 | Nat Commun | WB |
| C E Aiken | 30791124 | J Physiol | WB |
| Xin Zhang | 35145081 | Cell Death Dis | WB,IHC,ChIP |

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

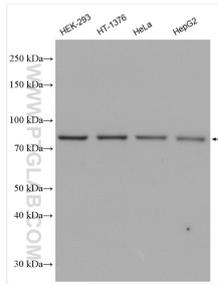
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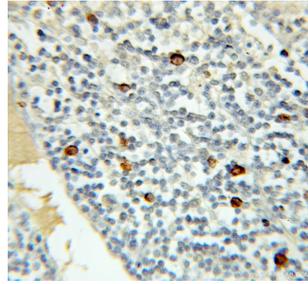
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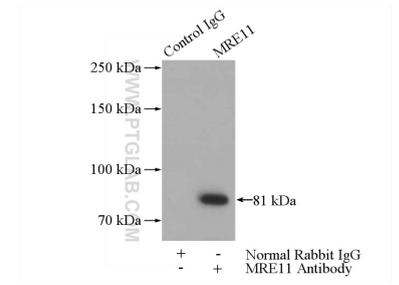
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 10744-1-AP (MRE11 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human lymphoma using 10744-1-AP (MRE11 antibody) at dilution of 1:50 (under 10x lens).



IP result of anti-MRE11 (IP:10744-1-AP, 4ug; Detection:10744-1-AP 1:600) with HeLa cells lysate 1200ug.