

For Research Use Only

# MRE11 Polyclonal antibody

Catalog Number: 10744-1-AP **7 Publications**



## Basic Information

<b>Catalog Number:</b> 10744-1-AP	<b>GenBank Accession Number:</b> BC005241	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 400 µg/ml	<b>GeneID (NCBI):</b> 4361	<b>Recommended Dilutions:</b> WB 1:500-1:2000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P49959	IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate
<b>Isotype:</b> IgG	<b>Full Name:</b> MRE11 meiotic recombination 11 homolog A (S. cerevisiae)	IHC 1:20-1:200
<b>Immunogen Catalog Number:</b> AG1105	<b>Calculated MW:</b> 81 kDa	
	<b>Observed MW:</b> 81 kDa	

## Applications

<b>Tested Applications:</b> IHC, IP, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> WB, IF, IHC, ChIP	<b>WB :</b> HEK-293 cells, HT-1376 cells, HeLa cells, HepG2 cells
<b>Species Specificity:</b> human, mouse, rat	<b>IP :</b> HeLa cells,
<b>Cited Species:</b> human, rat	<b>IHC :</b> human lymphoma tissue,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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

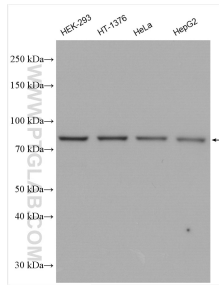
## Storage

**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

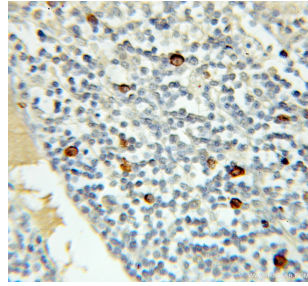
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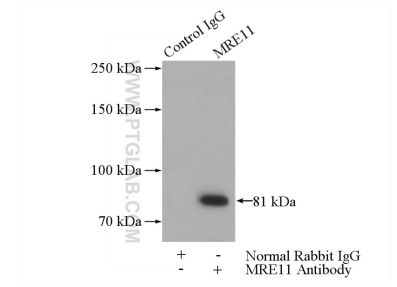
## Selected Validation Data



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.