

For Research Use Only

MRE11A Monoclonal antibody

Catalog Number: 67570-1-Ig



Basic Information

Catalog Number: 67570-1-Ig	GenBank Accession Number: BC063458	Purification Method: Protein G purification
Size: 1000 µg/ml	GeneID (NCBI): 4361	CloneNo.: 1B12B2
Source: Mouse	UNIPROT ID: P49959	Recommended Dilutions: WB 1:3000-1:50000
Isotype: IgG1	Full Name: MRE11 meiotic recombination 11 homolog A (S. cerevisiae)	
Immunogen Catalog Number: AG28847	Observed MW: 81 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls:
Species Specificity: Human, Mouse, Rat	WB : HeLa cells, HEK-293 cells, Jurkat cells, K-562 cells, HSC-T6 cells, PC-12 cells, NIH/3T3 cells, 4T1 cells

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)

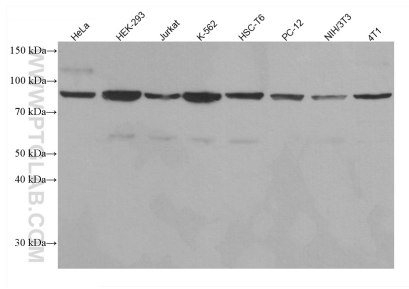
Storage

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

For technical support and original validation data for this product please contact:
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67570-1-Ig (MRE11A antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.