

MRE11A Monoclonal antibody

Catalog Number: 67570-1-Ig

Basic Information

Catalog Number:

67570-1-Ig

Concentration:

2200 ug/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG28847

GenBank Accession Number:

BC063458

GeneID (NCBI):

4361

UNIPROT ID:

P49959

Full Name:

MRE11 meiotic recombination 11
homolog A (S. cerevisiae)

Observed MW:

81 kDa

Purification Method:

Protein G purification

CloneNo.:

1B12B2

Recommended Dilutions:

WB: 1:3000-1:50000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

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:

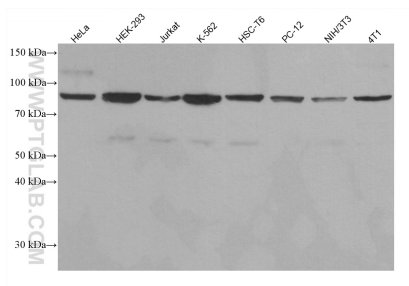
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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.