

For Research Use Only

MRE11 Recombinant monoclonal antibody, PBS Only

Catalog Number:87066-3-PBS



Basic Information

Catalog Number: 87066-3-PBS	GenBank Accession Number: BC005241	Purification Method: Protein A purification
Source: Rabbit	GeneID (NCBI): 4361	CloneNo.: 252144G6
Isotype: IgG	UNIPROT ID: P49959	
Immunogen Catalog Number: AG1105	Full Name: MRE11 meiotic recombination 11 homolog A (S. cerevisiae)	
	Calculated MW: 81 kDa	
	Observed MW: 81 kDa	

Applications

Tested Applications:
WB, IP, Indirect ELISA

Species Specificity:
human, mouse

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 -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:
PBS only, pH7.3

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

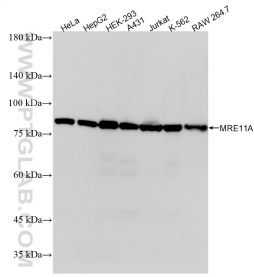
T: 4006900926

E: Proteintech-CN@ptglab.com

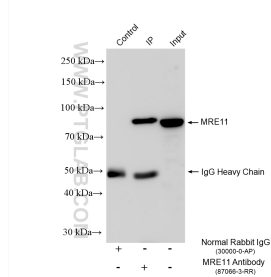
W: ptgcn.com

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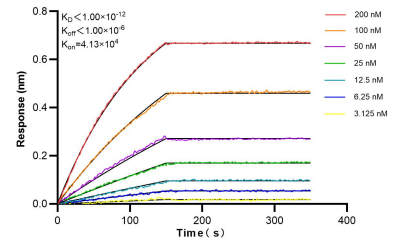
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87066-3-RR (MRE11A antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 87066-3-PBS in a different storage buffer formulation.



IP result of anti-MRE11 (IP:87066-3-RR, 4ug; Detection:87066-3-RR 1:2000) with HeLa cells lysate 1320 ug. This data was developed using the same antibody clone with 87066-3-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 87066-3-RR against Human MRE11 were performed. The affinity constant is below 1 pM.