For Research Use Only

POLG Recombinant antibody

Catalog Number:83670-1-RR

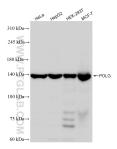


Basic Information	Catalog Number: 83670-1-RR	GenBank Accession Number: BC042571	Purification Method: Protein A purfication	
	Size: 1000 μg/ml	GenelD (NCBI): 5428	CloneNo.: 240441D2	
	Source: Rabbit	UNIPROT ID: P54098	Recommended Dilutions: WB 1:5000-1:50000	
	lsotype: IgG	Full Name: polymerase (DNA directed), gamma		
	Immunogen Catalog Number: AG5256	Calculated MW: 140 kDa		
		Observed MW: 140 kDa		
Applications	Tested Applications:	Positive 0	Controls:	
	WB, ELISA Species Specificity: human, rat	WB : HeLa cells, rat brain tissue, rat testis tissue, HepG cells, HEK-293T cells, MCF-7 cells		
Background Informatic	exonuclease ('exo') domain. The e proofreading activity to the enzyr of mitochondrial DNA (mtDNA). R single-stranded DNA template, RM	POLG (DNA polymerase gamma) is composed of a C-terminal polymerase ('pol') domain and an amino-terminal exonuclease ('exo') domain. The exo domain increases the fidelity of mitochondrial DNA replication by conferring a proofreading activity to the enzyme (PMID: 12210792). Catalytic subunit of POLG solely responsible for replication of mitochondrial DNA (mtDNA). Replicates both heavy and light strands of the circular mtDNA genome using a single-stranded DNA template, RNA primers and the four deoxyribonucleoside triphosphates as substrates (PMID:11477093; 11897778; 15917273; 19837034; 9558343).		
Storage	Storage: Store at -20°C. Stable for one year Storage Buffer: PBS with 0.02% sodium azide and Aliquoting is unnecessary for -20°	l 50% glycerol pH 7.3.		

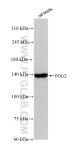
For technical support and original validation data for this product please contact: T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

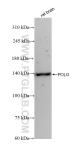
Selected Validation Data



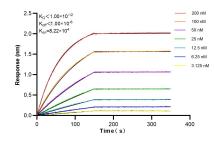
Various lysates were subjected to SDS PAGE followed by western blot with 83670-1-RR (POLG antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



rat testis tissue were subjected to SDS PAGE followed by western blot with 83670-1-RR (POLG antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



rat brain tissue were subjected to SDS PAGE followed by western blot with 83670-1-RR (POLG antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 83670-1-RR against Human POLG were performed. The affinity constant is below 1 pM.