For Research Use Only

DNA ligase III/LIG3 Recombinant antibody

Catalog Number:85409-4-RR

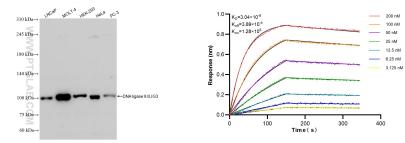


Basic Information	Catalog Number: 85409-4-RR	GenBank Accession Number: BC 068005	Purification Method: Protein A purification	
	Size: 100ul , Concentration: 1000 µg/ml by Nanodrop; Source: Rabbit Isotype: IgG Immunogen Catalog Number: AG24917	GenelD (NCBI): 3980	CloneNo.: 242870C6	
		UNIPROT ID: P49916 Full Name:	Recommended Dilutions: WB 1:5000-1:50000	
		ligase III, DNA, ATP-dependent Calculated MW: 100-110 kDa		
		Observed MW: 100 kDa		
Applications	Tested Applications: WB, ELISA Species Specificity: human	WB : LNCa	i <mark>tive Controls:</mark> : LNCaP cells, MOLT-4 cells, HEK-293 cells, HeLa s, PC-3 cells	
Background Information	DNA ligase III (DNA ligase 3) is an enzyme that in humans is encoded by the LIG3 gene. The human LIG3 gene encodes ATP-dependent DNA ligases that seal interruptions in the phosphodiester backbone of duplex DNA. There are three families of ATP-dependent DNA ligases in eukaryotes. These enzymes utilize the same three step reaction mechanism; 1 formation of a covalent enzyme-adenylate intermediate; 2 transfer of the adenylate group to the 5' phosphate terminus of a DNA nick; 3 phosphodiester bond formation. Unlike LIG1 and LIG4 family members that are found in almost all eukaryotes, LIG3 family members are less widely distributed. The LIG3 gene encodes several distinct DNA ligase species by alternative translation initiation and alternative splicing mechanisms.			
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.			
*** 20ul sizes contain 0.1% BSA	Aliquoting is unnecessary for -20°C st	torage		

For technical support and original validation data for this product please contact:T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free
in USA), or 1(312) 455-8498 (outside USA)E: proteintech@ptglab.comW: ptglab.comW: ptglab.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 85409-4-RR (LIG3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. Biolayer interferometry (BLL) kinetic assays of 85409-4-RR against Human DNA ligase III/LIG3 were performed. The affinity constant is 3.04 nM.