

For Research Use Only

DNA ligase III/LIG3 Recombinant antibody, PBS Only

Catalog Number: 85409-4-PBS



Basic Information

Catalog Number: 85409-4-PBS	GenBank Accession Number: BC068005	Purification Method: Protein A purification
Concentration: 1 mg/ml	GeneID (NCBI): 3980	CloneNo.: 242870C6
Source: Rabbit	UNIPROT ID: P49916	
Isotype: IgG	Full Name: ligase III, DNA, ATP-dependent	
Immunogen Catalog Number: AG24917	Calculated MW: 100-110 kDa	
	Observed MW: 100 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human

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 -80°C.
The product is shipped with ice packs. Upon receipt, store it immediately at -80°C
Storage Buffer:
PBS Only

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

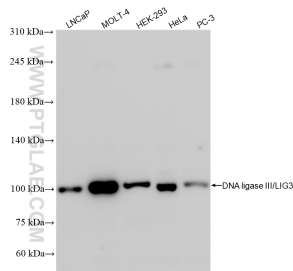
T: 4006900926

E: Proteintech-CN@ptglab.com

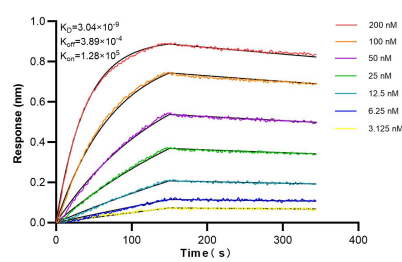
W: ptgcn.com

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 85409-4-RR (LIG3 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 85409-4-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 85409-4-RR against Human DNA ligase III/LIG3 were performed. The affinity constant is 3.04 nM.