For Research Use Only

LIG3 Monoclonal antibody

Catalog Number:68810-1-Ig

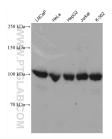


Basic Information	Catalog Number: 68810-1-lg	GenBank Accession Number: BC068005	Purification Method: Protein G purification	
	Size: 1000 µg/ml	GeneID (NCBI): 3980	CloneNo.: 1B10B3	
	Source: Mouse	UNIPROT ID: P49916	Recommended Dilutions: WB 1:2000-1:10000	
	lsotype: IgG1	Full Name: ligase III, DNA, ATP-dependent Calculated MW: 100-110 kDa Observed MW: 100 kDa		
	Immunogen Catalog Number: AG31484			
Applications	Tested Applications: WB, ELISA	Positive C	Controls: aP cells, HSC-T6 cells, HeLa cells, HepG2 cells,	
	Species Specificity: Human, Mouse, Rat	Jurkat cells, K-562 cells		
Background Informa		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.		
	families of ATP-dependent DNA li mechanism; 1 formation of a cova phosphate terminus of a DNA nick found in almost all eukaryotes, Ll	gases in eukaryotes. These enzymes (lent enzyme-adenylate intermediate ;; 3 phosphodiester bond formation. Ur G3 family members are less widely di	utilize the same three step reaction 2 transfer of the adenylate group to the 5' like LIG1 and LIG4 family members that are stributed. The LIG3 gene encodes several	

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

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68810-1-1g (LIG3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.