For Research Use Only

LIG4 Monoclonal antibody

Catalog Number:66705-1-Ig

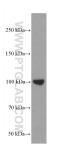


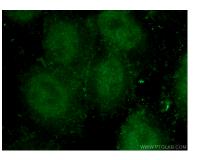
Basic Information	Catalog Number: 66705-1-lg	GenBank Accession Number: BC037491	Purification Method: Protein G purification	
	Size: 1000 µg/ml	GenelD (NCBI): 3981	CloneNo.: 1H6C11	
	Source: Mouse Isotype: IgG2a Immunogen Catalog Number: AG3385	UNIPROT ID: P49917 Full Name: ligase IV, DNA, ATP-dependent	Recommended Dilutions: WB 1:1000-1:4000 IF/ICC 1:50-1:500	
				Calculated MW: 911 aa, 104 kDa
		Observed MW: 100-104 kDa		
		Applications	Tested Applications: IF/ICC, WB,ELISA Species Specificity: Human	Positive (
	WB : PC-3 cells, HeLa cells, HepG2 cells, Jurkat cells, Ramos cells, human testis tissue			
IF/ICC : H	epG2 cells,			
Background Information	Two major pathways, homologous recombination (HR) and nonhomologous end joining (NHEJ), counteract one of themost toxic lesions, the DSB. The core protein complex mediating NHEJ in mammals includes DNA ligase IV (Lig4). Lig4 belongs to an ATP-dependent DNA ligase family, and joins single-strand brdownloadeaks in a double-stranded polydeoxynucleotide in an ATP-dependent reaction. The complex Lig4-XRCC4 is responsible for the NHE ligation step, and XRCC4 enhances the joining activity of Lig4.			
Storage	Storage: Store at -20°C. Stable for one year Storage Buffer:	after shipment.		
	PBS with 0.02% sodium azide and	1 50% glycerol pH 7.3.		

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

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

Selected Validation Data





PC-3 cells were subjected to SDS PAGE followed by western blot with 66705-1-1g (LIG4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.

Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 66705-1-Ig (LIG4 antibody) at dilution of 1:100 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).