For Research Use Only

## LIG4 Polyclonal antibody Catalog Number: 12695-1-AP Featured Product

Featured Product



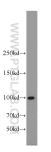


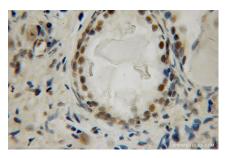
Basic Information	Catalog Number: 12695-1-AP	GenBank Accession No BC037491	umber:	Purification Method: Antigen affinity purification	
	Size:	GeneID (NCBI): 3981 UNIPROT ID:		Recommended Dilutions: WB 1:500-1:1000 IHC 1:20-1:200	
	150ul , Concentration: 600 ug/ml by Nanodrop; Source:				
					P49917
		Rabbit	Full Name: ligase IV, DNA, ATP-dependent Calculated MW:		
	Isotype:				
	IgG Immunogen Catalog Number: AG3385				
		911 aa, 104 kDa			
		Observed MW: 100-104 kDa			
	Applications	Tested Applications:	Positive Controls:		
WB, IHC, ELISA			WB : mouse t	estis tissue, mouse liver tissue, HepG2	
Cited Applications:			cells, HeLa cells, rat testis tissue		
WB, IF		IHC : human prostate cancer tissue, human testis tissue			
Species Specificity: human, mouse, rat					
Cited Species: human, mouse, rat					
TE buffer pH 9.0; (*) Alternati retrieval may be performed w buffer pH 6.0					
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 NHEJ ligation step, and XRCC4 enhances the joining activity of Lig4.				
	Author	omed ID Journa	ıl	Application	
Notable Publications	Author Pub				
Notable Publications			eath Differ	WB	
Notable Publications	Liying He 362	220889 Cell D	eath Differ ol Macromol	WB WB	
Notable Publications	Liying He 362 Hong-Yu Tao 364	220889 Cell D	ol Macromol		
Notable Publications Storage	Liying He 362 Hong-Yu Tao 364	220889 Cell D   435475 Int J Bi   704914 PLoS C   ter shipment. 2000 glycerol pH 7.3.	ol Macromol	WB	

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

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## Selected Validation Data





mouse testis tissue were subjected to SDS PAGE followed by western blot with 12695-1-AP (LIG4 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.

Immunohistochemical analysis of paraffinembedded human prostate cancer using 12695-1-AP (LIG4 antibody) at dilution of 1:100 (under 10x lens).