

## Anti-DNA Ligase 4 Antibody

Catalog #	Source	Reactivity	Applications
CPA7172	Rabbit	H, M, R	WB, IH
<b>Description</b>	Rabbit polyclonal antibody to DNA Ligase 4		
<b>Immunogen</b>	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human DNA Ligase 4. The exact sequence is proprietary.		
<b>Purification</b>	The antibody was purified by immunogen affinity chromatography.		
<b>Specificity</b>	Recognizes endogenous levels of DNA Ligase 4 protein.		
<b>Clonality</b>	Polyclonal		
<b>Conjugation</b>			
<b>Form</b>	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.		
<b>Dilution</b>	WB (1/500 - 1/1000), IH (1/100 - 1/200)		
<b>Gene Symbol</b>	LIG4		
<b>Alternative Names</b>	DNA ligase 4; DNA ligase IV; Polydeoxyribonucleotide synthase [ATP] 4		
<b>Entrez Gene</b>	3981 (Human); 319583 (Mouse)		
<b>SwissProt</b>	P49917 (Human); Q8BTF7 (Mouse)		
<b>Storage/Stability</b>	Shipped at 4° C. Upon delivery aliquot and store at -20° C for one year. Avoid freeze/thaw cycles.		

**Application key:** E- ELISA, WB- Western blot, IH- Immunohistochemistry, IF- Immunofluorescence, FC- Flow cytometry, IC- Immunocytochemistry, IP- Immunoprecipitation, ChIP- Chromatin Immunoprecipitation, EMSA- Electrophoretic Mobility Shift Assay, BL- Blocking, SE- Sandwich ELISA, CBE- Cell-based ELISA, RNAi- RNA interference

**Species reactivity key:** H- Human, M- Mouse, R- Rat, B- Bovine, C- Chicken, D- Dog, G- Goat, Mk- Monkey, P- Pig, Rb- Rabbit, S- Sheep, Z- Zebrafish

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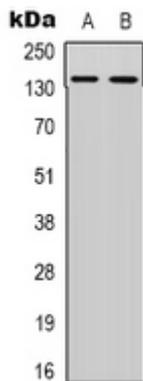
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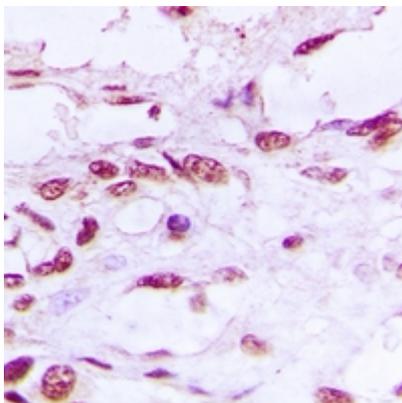
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## Product Data Sheet



Western blot analysis of DNA Ligase 4 expression in KB (A), MCF7 (B) whole cell lysates. (Predicted band size: 103 kD; Observed band size: 127 kD)



Immunohistochemical analysis of DNA Ligase 4 staining in human prostate cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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