9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

KD-Validated Anti-DNA ligase 4 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

ABG1246

Product Overview

Name	KD-Validated Anti-DNA ligase 4 Rabbit Monoclonal Antibody
Accession(Primary)	P49917
Host Species	Rabbit
Clonality	Monoclonal
Isotype	Rabbit IgG
Immunogen	A synthesized peptide derived from human DNA Ligase IV
Species Reactivity	Human
Calculated MW	Predicted, 104 kDa , observed, 103 kDa
Storage Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Recommended Dilution	Western Blotting (WB): 1:1,000-1:5,000 Flow Cytometry (FCM): 1:2,000 Immunocytochemistry (IC): 1:1,000

Target information (P49917)

Gene Name	LIG4
About Gene Symbol	LIG4 (DNA Ligase 4) is a biosynthetic enzyme involved in DNA damage response and repair. It is an important research target in metabolic disease, cancer metabolism, and drug discovery and is widely studied to elucidate cellular mechanisms and identify therapeutic targets.

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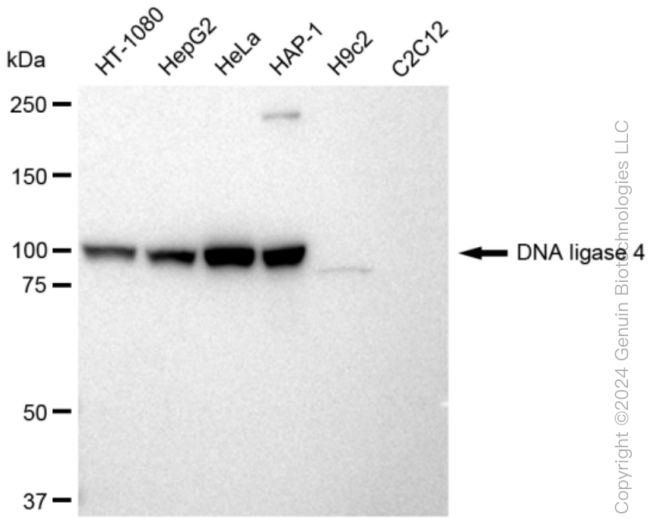

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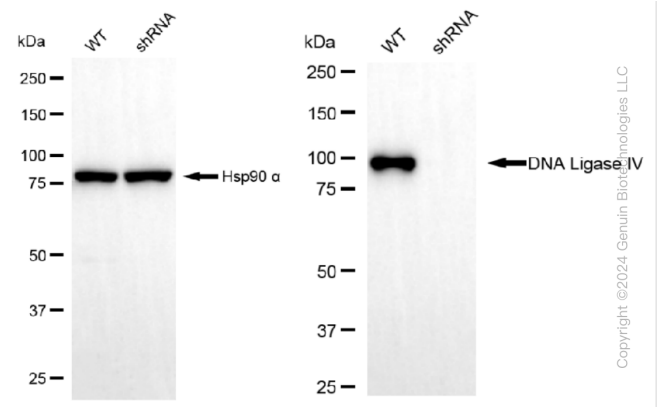
Western blotting analysis using anti-DNA ligase 4 antibody (Cat#ABG1246). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-DNA ligase 4 antibody (Cat#ABG1246, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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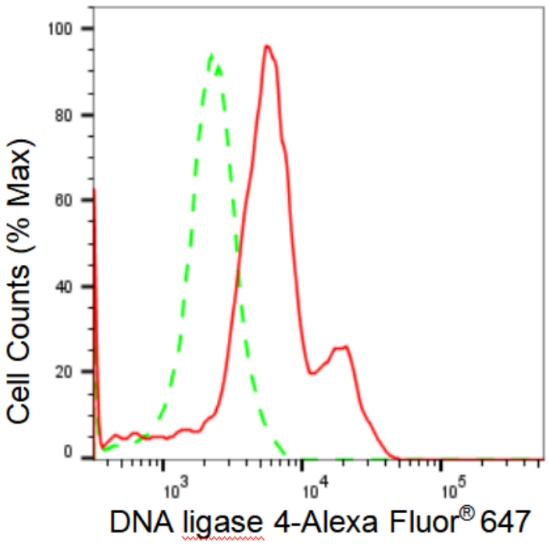
Western blotting analysis using anti-DNA ligase 4 antibody (Cat#ABG1246). DNA ligase 4 expression in wild type (WT) and DNA ligase 4 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-DNA ligase 4 antibody (Cat#ABG1246, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



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Flow cytometric analysis of DNA ligase 4 expression in HeLa cells using DNA ligase 4 antibody (Cat#ABG1246, 1:2,000). Green, isotype control; red, DNA ligase 4.

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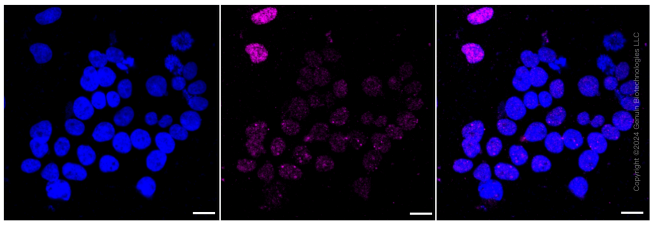

Immunocytochemical staining of Hela cells with DNA ligase 4 antibody (Cat#ABG1246, 1:1,000). Nuclei were stained blue with DAPI; DNA ligase 4 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar: 20 µm.