

DNA Ligase III Monoclonal Antibody (1F3)

Product Details	
Size	100 µg
Species Reactivity	Chicken, Human, Mouse
Host/Isotope	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	1F3
Conjugate	Unconjugated
Immunogen	Recombinant full-length human DNA Ligase III-b.
Form	Liquid
Concentration	1 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.2
Contains	no preservative
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2281271

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	Assay Dependent	-
Immunofluorescence (IF)	Assay Dependent	-
Immunoprecipitation (IP)	Assay Dependent	-
Neutralization (Neu)	Assay Dependent	-
Western Blot (WB)	1:500-1:3,000	-
in situ PLA (PLA)	Assay Dependent	-

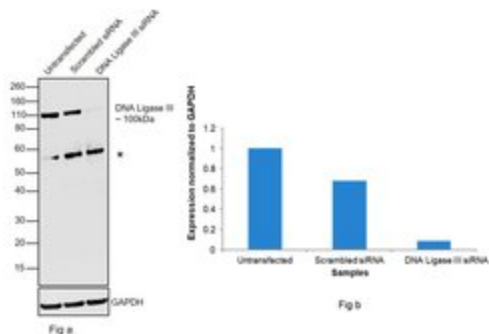
Product Specific Information

Recommended positive controls: 293T, A431, HeLa, HepG2.

The predicted molecular weight of MA1-23191 is 100 kDa.

DNA Ligase III Antibody (MA1-23191)

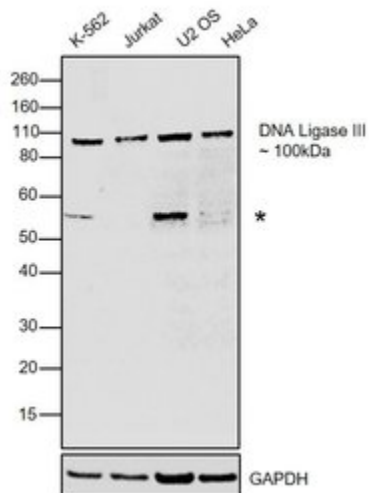
Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with DNA Ligase III siRNA and decrease in signal intensity was observed in western blot application using DNA Ligase III Monoclonal Antibody (1F3) (Product # MA1-23191). Knockdown validation info.



Product Images For DNA Ligase III Monoclonal Antibody (1F3)

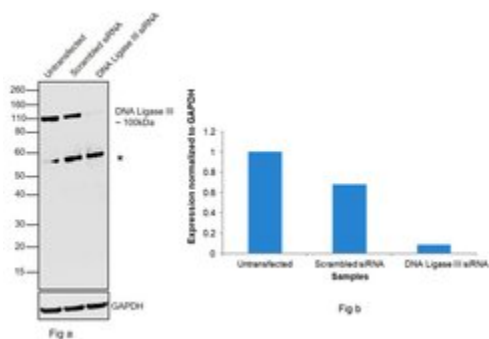
DNA Ligase III Antibody (MA1-23191) in WB

Western blot was performed using DNA Ligase III Monoclonal Antibody (1F3) (Product # PA1-23191) and a 100kDa band corresponding to DNA Ligase III was observed across all the cell lines tested with uncharacterized non specific band (*). Whole cell extracts (30 µg lysate) of K-562 (Lane 1), Jurkat (Lane 2), U2 OS (Lane 3), HeLa (Lane 4) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0321BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:1000 dilution) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L), Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



DNA Ligase III Antibody (MA1-23191) in WB

Knockdown of DNA Ligase III was achieved by transfecting HeLa cells with LIG3 specific siRNAs (Silencer® select Product # S8177, S8178). Western blot analysis (Fig. a) was performed using whole cell extracts from the Cyclin D1 knockdown cells (lane 3), non-specific scrambled siRNA transfected cells (lane 2) and untransfected cells (lane 1). The blot was probed with DNA Ligase III Monoclonal Antibody (1F3) (Product # MA1-23191, 1:1000 dilution) and Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP (Product # A28177, 1:4000 dilution). Densitometric analysis of this western blot is shown in histogram (Fig. b). Decrease in signal upon siRNA mediated knock down confirms that antibody is specific to DNA Ligase III.



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