

XRCC4 Monoclonal Antibody (OTI4H9)

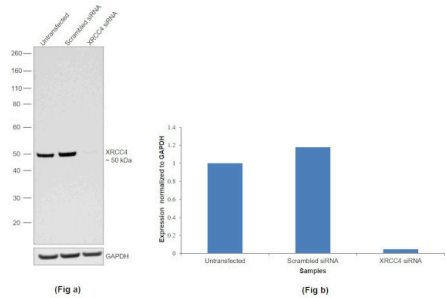
Product Details	
Size	100 µL
Species Reactivity	Human, Mouse
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	OTI4H9
Conjugate	Unconjugated
Immunogen	Full-length protein expressed in 293T cell transfected with human XRCC4 expression vector
Form	Liquid
Concentration	1.0 mg/mL
Purification	Affinity Chromatography
Storage buffer	PBS, pH 7.3, with 1% BSA, 50% glycerol
Contains	0.02% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2725686

Applications	Tested Dilution	Publications
Western Blot (WB)	1:2,000	-
Immunohistochemistry (Paraffin) (IHC (P))	1:50	-
Immunocytochemistry (ICC/IF)	1:200	-

Product Images For XRCC4 Monoclonal Antibody (OTI4H9)

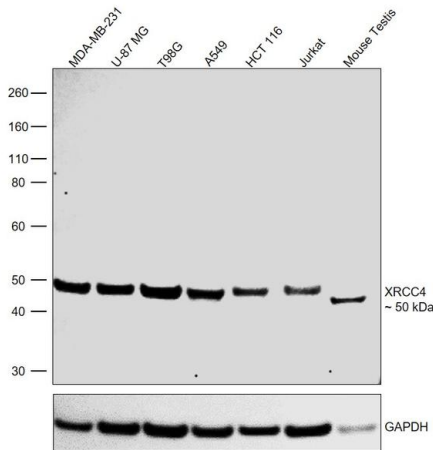
XRCC4 Antibody (MA5-24983)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. U-87 MG cells were transfected with DNA repair protein XRCC4 siRNA and decrease in signal intensity was observed in Western Blot application using Anti-XRCC4 Monoclonal Antibody (OTI4H9) (Product # MA5-24983). {KD}



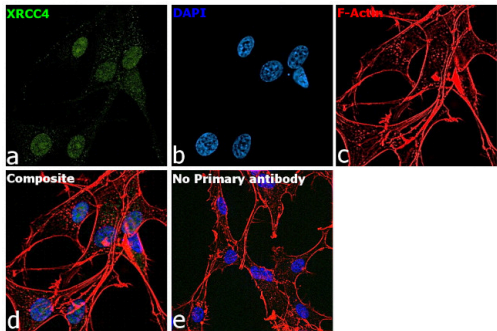
XRCC4 Antibody (MA5-24983) in WB

Western blot was performed using Anti-XRCC4 Monoclonal Antibody (OTI4H9) (Product # MA5-24983) and a 50kDa band corresponding to DNA repair protein XRCC4 was observed. Nuclear enriched extracts (30 µg lysate) of MDA-MB-231 (Lane 1), U-87 MG (Lane 2), T98G (Lane 3), A549 (Lane 4), HCT 116 (Lane 5), Jurkat (Lane 6) and tissue extract (30 µg lysate) of Mouse Testis (Lane 7) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). 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 (1:2000) and detected by chemiluminescence with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, HRP (Product # A28177, 1:4000) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using Novex® ECL Chemiluminescent Substrate Reagent Kit (Product # WP20005).



XRCC4 Antibody (MA5-24983) in ICC/IF

Immunofluorescence analysis of DNA repair protein XRCC4 was performed using 70% confluent log phase U-87 MG cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with XRCC4 Monoclonal Antibody (OTI4H9) (Product # MA5-24983) at 1:200 in 0.1% BSA, incubated at room temperature for 5 hours and then labeled with Donkey anti-Mouse IgG (H+L) Highly Cross-Adsorbed Secondary Antibody, Alexa Fluor Plus 488 (Product # A32766), (1:2,000), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b:Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing predominantly nuclear localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



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