

RAD51 Monoclonal Antibody (51RAD01 (3C10))

Product Details	
Size	500 µL
Species	Human, Mouse, Rat
Published Species	Yeast, Protozoa, Human
Expression System	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	51RAD01 (3C10)
Conjugate	Unconjugated
Immunogen	Recombinant Rad51 protein
Form	Liquid
Concentration	0.2 mg/mL
Purification	Protein G
Storage buffer	PBS, pH 7.4, with 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C
RRID	AB_10985045

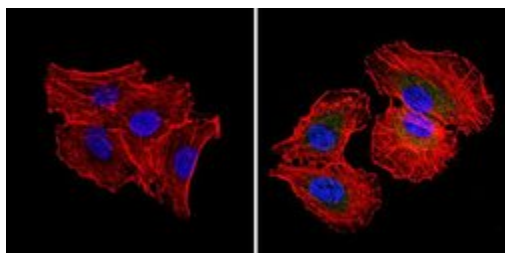
Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	1:10-1:100	10 Publications
Immunofluorescence (IF)	1:10-1:100	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	2-4 µg/mL	-
Immunoprecipitation (IP)	2 µg/mL	1 Publication
Western Blot (WB)	1:50-1:500	6 Publications
Immunohistochemistry (IHC)	-	4 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

MA5-14419 targets RAD51 in IHC (P), IP, ICC/IF and WB applications and shows reactivity with Human, mouse, and Rat samples.

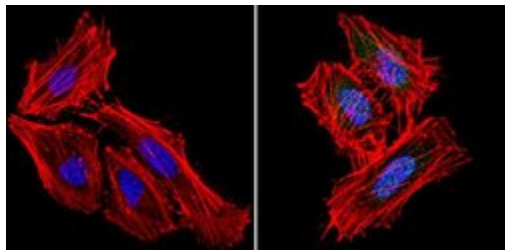
The MA5-14419 immunogen is recombinant Rad51 protein.

Product Images For RAD51 Monoclonal Antibody (51RAD01 (3C10))



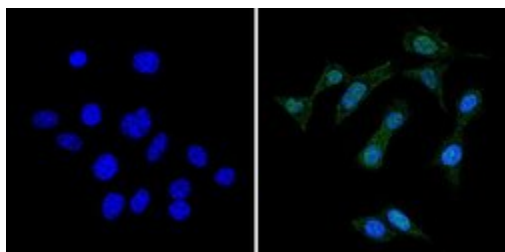
RAD51 Antibody (MA5-14419) in IF

Immunofluorescent analysis of RAD51 (green) showing staining in the cytoplasm and nucleus of H1299 cells (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a RAD51 monoclonal antibody (Product # MA5-14419) in 3% BSA-PBS at a dilution of 1:20 and incubated overnight at 4°C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. Actin was stained using Alexa Fluor 554 (red) and nuclei were stained with Hoechst or DAPI (blue). Images were taken at a magnification of 60x.



RAD51 Antibody (MA5-14419) in IF

Immunofluorescent analysis of RAD51 (green) showing staining in the cytoplasm and nucleus of HeLa cells (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a RAD51 monoclonal antibody (Product # MA5-14419) in 3% BSA-PBS at a dilution of 1:50 and incubated overnight at 4°C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. Actin was stained using Alexa Fluor 554 (red) and nuclei were stained with Hoechst or DAPI (blue). Images were taken at a magnification of 60x.



RAD51 Antibody (MA5-14419) in IF

Immunofluorescent analysis of RAD51 (green) showing staining in the cytoplasm and nucleus of NIH-3T3 cells (right) compared to a negative control without primary antibody (left). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a RAD51 monoclonal antibody (Product # MA5-14419) in 3% BSA-PBS at a dilution of 1:50 and incubated overnight at 4°C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. Nuclei were stained with Hoechst or DAPI (blue). Images were taken at a magnification of 60x.

[View more figures on thermofisher.com](https://www.thermofisher.com)

23 References

Western Blot (6)

Journal of translational science

Cataloging antineoplastic agents according to their effectiveness against platinum-resistant and platinum-sensitive ovarian carcinoma cell lines.

"MA514419 was used in western blot to determine the effectiveness of several antineoplastic agents against epithelial ovarian cancer cell lines."

Authors: Ishiguro K,Zhu YL,Lin ZP,Penketh PG,Shyam K,Zhu R,Baumann RP,Sartorelli AC,Rutherford TJ,Ratner ES

Species
Human

Dilution
Not Cited

Year
2020

Oncotarget

The relevance of prelamin A and RAD51 as molecular biomarkers in cervical cancer.

"Published figure using RAD51 monoclonal antibody (Product # MA5-14419) in Western Blot"

Authors: Leonardi S,Buttarelli M,De Stefano I,Ferrandina G,Petrillo M,Babini G,Scambia G,Marino C,Mancuso M,Gallo D

Species
Not Applicable

Dilution
Not Cited

Year
2017

[View more WB references on thermofisher.com](#)

Immunocytochemistry (10)

Clinical cancer research : an official journal of the American Association for Cancer Research

Replication Stress Leading to Apoptosis within the S-phase Contributes to Synergism between Vorinostat and AZD1775 in HNSCC Harboring High-Risk TP53 Mutation.

"MA5-14419 was used in Immunocytochemistry-immunofluorescence to evaluate the efficacy of a regimen combining vorinostat and AZD1775 in head and neck squamous cell carcinoma cells with a variety of p53 mutations."

Authors: Tanaka N,Patel AA,Tang L,Silver NL,Lindemann A,Takahashi H,Jaksik R,Rao X,Kalu NN,Chen TC,Wang J, Frederick MJ,Johnson F,Gleber-Netto FO,Fu S,Kimmel M,Wang J,Hittelman WN,Pickering CR,Myers JN,Osman AA

Species
Human

Dilution
Not Cited

Year
2017

Molecular biology of the cell

A Zip3-like protein plays a role in crossover formation in the SC-less meiosis of the protist *Tetrahymena*.

"MA514419 was used in immunocytochemistry to study the DNA and genetic crossovers during meiosis in *Tetrahymena ciliata*."

Authors: Shodhan A,Kataoka K,Mochizuki K,Novatchkova M,Loidl J

Species
Protozoa

Dilution
Not Cited

Year
2017

[View more ICC references on thermofisher.com](#)

More applications with references on thermofisher.com

Misc (1) IHC (4) IF (1) IP (1)

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