

RAD51 Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human, Mouse, Rat, Zebrafish
Published Species	Yeast, Mouse, Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant fragment corresponding to a region within amino acids 1 and 228 of Human Rad51
Form	Liquid
Concentration	1.31 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7, with 20% glycerol
Contains	0.025% Proclin 300
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2544671

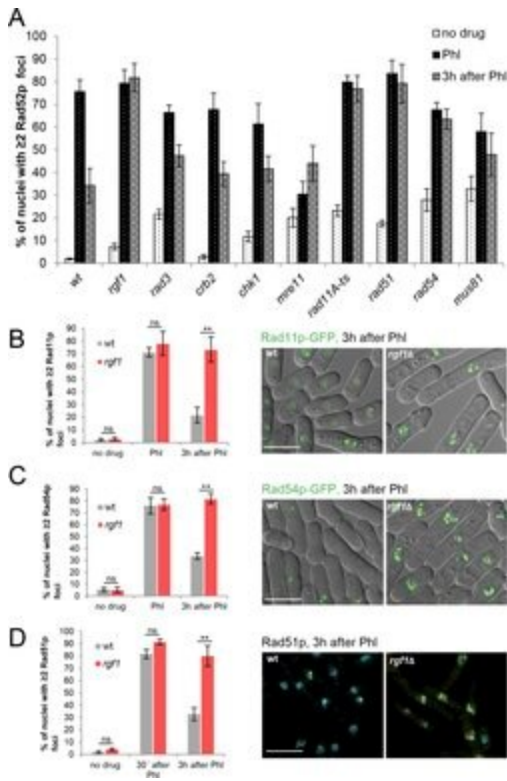
Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:3,000	3 Publications
Immunohistochemistry (IHC)	-	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:100-1:1,000	-
Immunocytochemistry (ICC/IF)	1:100-1:1,000	6 Publications
Immunoprecipitation (IP)	1:100-1:500	-

Product Specific Information

Recommended positive controls: 293T, A431, HeLa, HepG2, Neuro2A, C8D30, NIH-3T3, Raw264.7, C2C12, PC-12, Rat-2.

Predicted reactivity: Mouse (98%), Rat (98%), Zebrafish (90%), Xenopus laevis (96%), Dog (98%), Pig (99%), Rabbit (97%), Chicken (95%), Bovine (98%).

Store product as a concentrated solution. Centrifuge briefly prior to opening the vial.

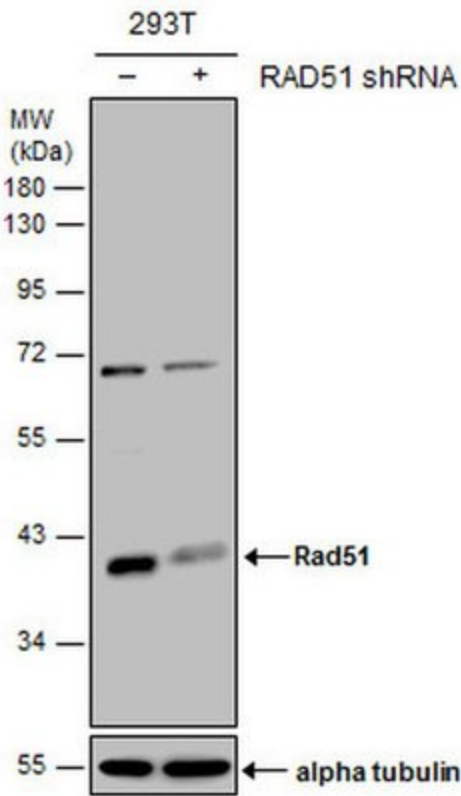


RAD51 Antibody (PA5-27195)

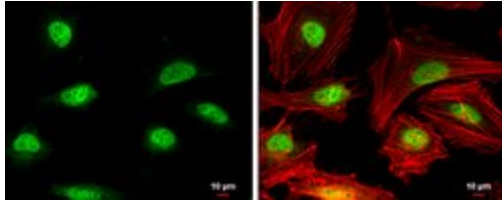
Figure 7. Deletion of *rgf1* + accumulates PhI-induced Rad11p, Rad54p and Rad51p foci. (A) Quantitation of the fraction of nuclei containing Rad52p-YFP foci in wild-type, *rgf1* Delta and mutants in the HR process. Cells from the indicated strains were culture to mid-log phase in YES medium, treated with PhI for 10 min and then released into fresh medium without PhI for 3 h. The number of foci in at least 100 nuclei for each strain and condition were scored in three independent experiments. Mean values were plotted with error bars representing the S.D. around the mean. (B) Quantitation of the fraction of nuclei containing Rad11p-GFP foci in wild-type and *rgf1* Delta cells before, in PhI and 3 h after treatment. The number of foci in at least 100 nuclei for each strain and condition were scored in three independent experiments. Error bars represent the standard deviation of the mean. Statistical significance was calculated using two-tailed unpaired Student's t test. ** P < 0.01; ns = non-significant. (right) Representative live imaging of Rad11p-GFP in wild-type and *rgf1* Delta cells 3 h after release from PhI arrest. (C) Quantitation of the fraction of nuclei containing Rad54p-GFP foci in wild-type and *rgf1* Delta cells. Culturing and quantitation was performed as in B. (right) Representative live imaging of Rad54p-GFP foci. (D) Quantitation of the fraction of nuclei containing ≥ 2 Rad51p foci in wild-type and *rgf1* Delta cells. Treatment of the cells was the same as that per Cell treatment validation info.

RAD51 Antibody (PA5-27195)

Antibody specificity was demonstrated by shRNA mediated knockdown of the target protein. 293T cells were transfected with RAD51 shRNA and decrease in signal intensity was observed in Western blot application using RAD51 Polyclonal Antibody (Product # PA5-27195). Knockdown validation info.



Product Images For RAD51 Polyclonal Antibody



RAD51 Antibody (PA5-27195) in ICC/IF

Immunocytochemistry-Immunofluorescence analysis of RAD51 was performed in HeLa cells fixed in 4% paraformaldehyde at RT for 15 min. Green: RAD51 Polyclonal Antibody (Product # PA5-27195) diluted at 1:500. Red: phalloidin, a cytoskeleton marker. Scale bar = 10 µm.

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

11 References

Western Blot (3)

Cell death & disease

Chloroxine overrides DNA damage tolerance to restore platinum sensitivity in high-grade serous ovarian cancer.

"Published figure using RAD51 polyclonal antibody (Product # PA5-27195) in Immunocytochemistry"

Authors: Silva VL,Saxena J,Nicolini F,Hoare JI,Metcalfe S,Martin SA,Lockley M

Species
Not Applicable

Dilution
Not Cited

Year
2021

Nature communications

The BRCA2-MEILB2-BRME1 complex governs meiotic recombination and impairs the mitotic BRCA2-RAD51 function in cancer cells.

"PA5-27195 was used in Immunocytochemistry-immunofluorescence to identify BRCA2 and MEILB2-associating protein 1 (BRME1), which functions as a stabilizer of MEILB2 by binding to an -helical N-terminus of MEILB2 and preventing MEILB2 self-association."

Authors: Zhang J,Gurusaran M,Fujiwara Y,Zhang K,Echbarthi M,Vorontsov E,Guo R,Pendlebury DF,Alam I,Livera G,Emmanuelle M,Wang PJ,Nandakumar J,Davies OR,Shibuya H

Species
Mouse
Not Applicable

Dilution
Not Cited
Not Cited

Year
2020

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

Immunohistochemistry (2)

Nucleic acids research

MEIOK21: a new component of meiotic recombination bridges required for spermatogenesis.

"PA5-27195 was used in Immunohistochemistry to investigate if MEIOK21 is a component of meiotic recombination bridges and thus required for efficient formation of DMC1/RAD51 foci."

Authors: Shang Y,Huang T,Liu H,Liu Y,Liang H,Yu X,Li M,Zhai B,Yang X,Wei Y,Wang G,Chen Z,Wang S,Zhang L

Species
Mouse

Dilution
1:100

Year
2020

Nucleic acids research

Rgf1p (Rho1p GEF) is required for double-strand break repair in fission yeast.

"PA5-27195 was used in Immunohistochemistry-immunofluorescence to explore the sensitivity of a deletion mutation in the Rho1p exchange factor Rgf1p to the DNA break/inducing antibiotic phleomycin."

Authors: Manjón E,Edreira T,Muñoz S,Sánchez Y

Species
Yeast

Dilution
1:100

Year
2017

More applications with references on thermofisher.com

ICC/IF (6)

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