



# RAD51 Monoclonal Antibody (51RAD01 (3C10))

Catalog Number MA5-14419

Product Data Sheet

Details		Species Reactivity	
<b>Size</b>	500µL	<b>Tested species reactivity</b>	Human, Mouse, Rat
<b>Host / Isotype</b>	Mouse / IgG1, kappa	<b>Published Species Reactivity</b>	Algae, Human, Not Applicable, Yeast
<b>Class</b>	Monoclonal	<b>Tested Applications</b>	<b>Dilution *</b>
<b>Type</b>	Antibody	<b>Immunocytochemistry (ICC)</b>	1:10-1:100
<b>Clone</b>	51RAD01 (3C10)	<b>Immunofluorescence (IF)</b>	1:10-1:100
<b>Immunogen</b>	Recombinant Rad51 protein	<b>Immunohistochemistry (Paraffin) (IHC (P))</b>	2-4 µg/ml
<b>Conjugate</b>	Unconjugated	<b>Immunoprecipitation (IP)</b>	2 µg/ml
<b>Form</b>	Liquid	<b>Western Blot (WB)</b>	1:50-1:500
<b>Concentration</b>	0.2mg/ml	<b>Published Applications</b>	
<b>Purification</b>	Protein G	<b>Immunocytochemistry (ICC)</b>	See 8 publications below
<b>Storage Buffer</b>	PBS, pH 7.4, with 0.2% BSA	<b>Immunohistochemistry (IHC)</b>	See 4 publications below
<b>Contains</b>	0.09% sodium azide	<b>Western Blot (WB)</b>	See 3 publications below
<b>Storage Conditions</b>	4° C	<b>Immunoprecipitation (IP)</b>	See 1 publications below

\* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

## 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.

## Background/Target Information

Rad51 (a eukaryotic homologue of Escherichia coli RecA) is similar to RecA, both biochemically and structurally: It promotes homologous pairing and strand exchange within a regular nucleoprotein filament. In yeast, the Rad51 family of related proteins also includes Rad55, Rad57 and Dmc1. In mammalian cells, seven genes in this family have been identified (HsRAD51, XRCC2, XRCC3, RAD51B/hREC2 and HsDMC1, RAD51C, and RAD 51D). Recent studies suggested that Rad51 is involved not only in homologous recombination but also in cell proliferation regulation.

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