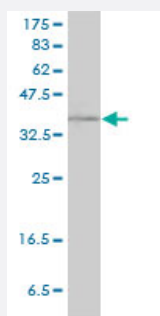


# RAD51C monoclonal antibody (M01), clone 3F3-5C6

Catalog # H00005889-M01

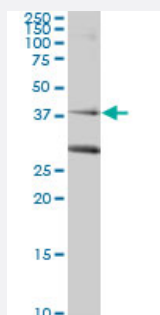
Size 100 ug

## Applications



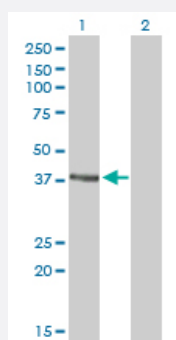
### Western Blot (Cell lysate)

RAD51C monoclonal antibody (M01), clone 3F3-5C6 Western Blot analysis of RAD51C expression in HeLa ( Cat # L013V1 ).



### Western Blot (Cell lysate)

RAD51C monoclonal antibody (M01), clone 3F3-5C6. Western Blot analysis of RAD51C expression in 293 ( Cat # L026V1 ).

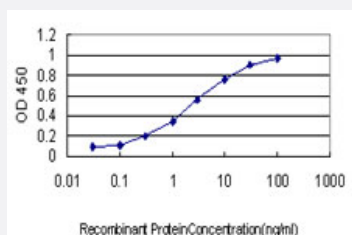


### Western Blot (Transfected lysate)

Western Blot analysis of RAD51C expression in transfected 293T cell line by RAD51C monoclonal antibody (M01), clone 3F3-5C6.

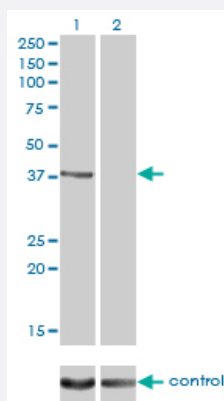
Lane 1: RAD51C transfected lysate(42.2 KDa).

Lane 2: Non-transfected lysate.



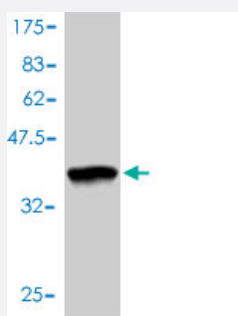
### Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged RAD51C is approximately 0.1ng/ml as a capture antibody.



### RNAi Knockdown (Antibody validated)

Western blot analysis of RAD51C over-expressed 293 cell line, cotransfected with RAD51C Validated Chimera RNAi ( Cat # H00005889-R01V ) (Lane 2) or non-transfected control (Lane 1). Blot probed with RAD51C monoclonal antibody (M01), clone 3F3-5C6 (Cat # H00005889-M01 ). GAPDH ( 36.1 kDa ) used as specificity and loading control.



Western Blot detection against Immunogen (40.48 KDa) .

## Specification

<b>Product Description</b>	Mouse monoclonal antibody raised against a full length recombinant RAD51C.
<b>Immunogen</b>	RAD51C (AAH00667.1, 1 a.a. ~ 134 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Sequence</b>	MRGKTRFRFEMQRDLVSFPLSPAVRVKLVSAAGFQTAEELLEVKPSSELSKEVGIKAEAELETQIIRRECLTNKPRYAGTSESHKKCTALELLEQEHTQGFITFCALDDILGGGVPLMKTTEICGAPGVGKTQL
<b>Host</b>	Mouse
<b>Reactivity</b>	Human
<b>Interspecies Antigen Sequence</b>	Mouse (86); Rat (88)
<b>Isotype</b>	IgG1 kappa
<b>Quality Control Testing</b>	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (40.48 KDa) .
<b>Storage Buffer</b>	In 1x PBS, pH 7.4
<b>Storage Instruction</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot (Cell lysate)

RAD51C monoclonal antibody (M01), clone 3F3-5C6 Western Blot analysis of RAD51C expression in HeLa ( Cat # L013V1 ).

[Protocol Download](#)

- Western Blot (Cell lysate)

RAD51C monoclonal antibody (M01), clone 3F3-5C6. Western Blot analysis of RAD51C expression in 293 ( Cat # L026V1 ).

[Protocol Download](#)

- Western Blot (Transfected lysate)

Western Blot analysis of RAD51C expression in transfected 293T cell line by RAD51C monoclonal antibody (M01), clone 3F3-5C6.

Lane 1: RAD51C transfected lysate(42.2 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged RAD51C is approximately 0.1ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- RNAi Knockdown (Antibody validated)

Western blot analysis of RAD51C over-expressed 293 cell line, cotransfected with RAD51C Validated Chimera RNAi ( Cat # H00005889-R01V ) (Lane 2) or non-transfected control (Lane 1). Blot probed with RAD51C monoclonal antibody (M01), clone 3F3-5C6 (Cat # H00005889-M01 ). GAPDH ( 36.1 kDa ) used as specificity and loading control.

[Protocol Download](#)

## Gene Info — RAD51C

Entrez GeneID

[5889](#)

GeneBank Accession#	<a href="#">BC000667</a>
Protein Accession#	<a href="#">AAH00667.1</a>
Gene Name	RAD51C
Gene Alias	MGC104277, RAD51L2
Gene Description	RAD51 homolog C (S. cerevisiae)
Omim ID	<a href="#">602774</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	This gene is a member of the RAD51 family of related genes, which encode strand-transfer proteins thought to be involved in recombinational repair of damaged DNA and in meiotic recombination. This gene product interacts with two other DNA repair proteins, encoded by RAD51B and XRC3, but not with itself. The protein copurifies with XRCC3 protein in a complex, reflecting their endogenous association and suggesting a cooperative role during recombinational repair. This gene is one of four localized to a region of chromosome 17q23 where amplification occurs frequently in breast tumors. Overexpression of the four genes during amplification has been observed and suggests a possible role in tumor progression. Alternative splicing has been observed for this gene and two variants encoding different isoforms have been identified. [provided by RefSeq]
Other Designations	DNA repair protein RAD51 homolog 3 RAD51 homolog C RAD51 homolog C, isoform 1 yeast RAD51 homolog 3

## Publication Reference

- [RAD51C-XRCC3 structure and cancer patient mutations define DNA replication roles.](#)

Michael A Longo, Sunetra Roy, Yue Chen, Karl-Heinz Tomaszowski, Andrew S Arvai, Jordan T Pepper, Rebecca A Boisvert, Selvi Kunnimalaiyaan, Caezanne Keshvani, David Schild, Albino Bacolla, Gareth J Williams, John A Tainer, Katharina Schlacher.

Nature Communications 2023 Jul; 14(1):4445.

Application: PLA, Human, HAP1 cell

## Pathway

- [Homologous recombination](#)

## Disease

- [Breast cancer](#)

- [Breast Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Multiple Sclerosis](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Urinary Bladder Neoplasms](#)