

For Research Use Only

# RAD51C Recombinant antibody, PBS Only (Capture/Detector)

Catalog Number: 84537-1-PBS



## Basic Information

|                           |             |                           |                                 |                      |                        |
|---------------------------|-------------|---------------------------|---------------------------------|----------------------|------------------------|
| Catalog Number:           | 84537-1-PBS | GenBank Accession Number: | BC107753                        | Purification Method: | Protein A purification |
| Size:                     | 1 mg/ml     | GeneID (NCBI):            | 5889                            | CloneNo.:            | 241971D4               |
| Source:                   | Rabbit      | UNIPROT ID:               | O43502                          |                      |                        |
| Isotype:                  | IgG         | Full Name:                | RAD51 homolog C (S. cerevisiae) |                      |                        |
| Immunogen Catalog Number: | AG35070     | Calculated MW:            | 376 aa, 42 kDa                  |                      |                        |
|                           |             | Observed MW:              | 42 kDa                          |                      |                        |

## Applications

**Tested Applications:**  
WB, FC (Intra), Cytometric bead array, Sandwich ELISA, Indirect ELISA, Sample test

**Species Specificity:**  
human

## Background Information

RAD51C (DNA repair protein RAD51 homolog 3) is essential for the homologous recombination (HR) pathway of DNA repair and is involved in the homologous recombination repair (HRR) pathway of double-stranded DNA breaks arising during DNA replication or induced by DNA-damaging agents (PMID: 14716019; 16215984; 16395335).

## Storage

**Storage:**  
Store at -80°C.  
**The product is shipped with ice packs. Upon receipt, store it immediately at -80°C**

**Storage Buffer:**  
PBS Only

For technical support and original validation data for this product please contact:

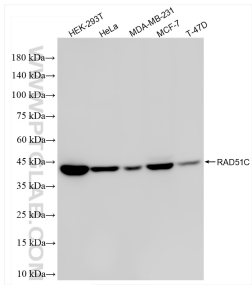
T: 4006900926

E: Proteintech-CN@ptglab.com

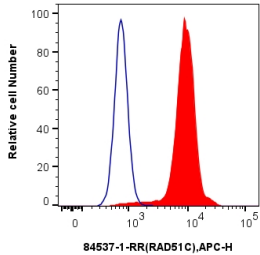
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

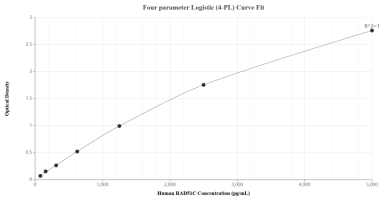
Selected Validation Data



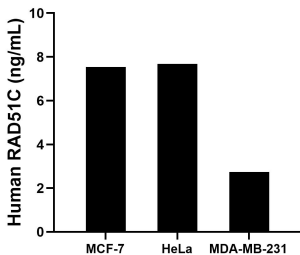
Various lysates were subjected to SDS PAGE followed by western blot with 84537-1-RR (RAD51C antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84537-1-PBS in a different storage buffer formulation.



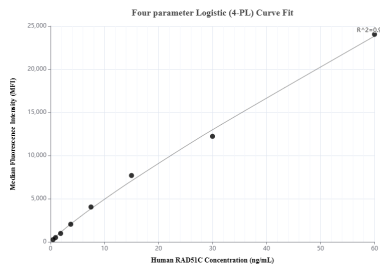
$1 \times 10^6$  MCF-7 cells were intracellularly stained with 0.25 ug RAD51C Recombinant antibody (84537-1-RR, Clone:241971D4) and APC-Conjugated Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 84537-1-PBS in a different storage buffer



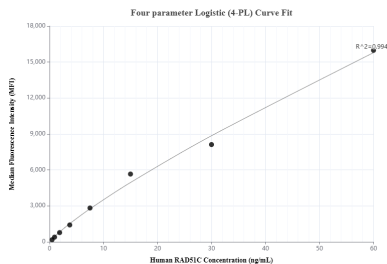
Sandwich ELISA standard curve of MP01399-3, Human RAD51C Recombinant Matched Antibody Pair - PBS only. 84537-4-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag35070. 84537-1-PBS was HRP conjugated as the detection antibody. Range: 78.1-5000 pg/mL



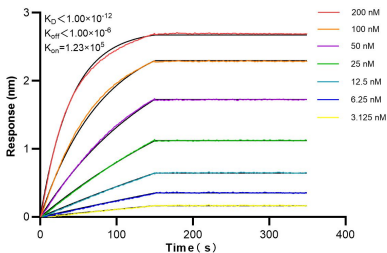
The mean RAD51C concentration was determined to be 7.5 ng/mL in MCF-7 cell extract based on a 1.2 mg/mL extract load, 7.7 ng/mL in HeLa cell extract based on a 1.0 mg/mL extract load and 2.7 ng/mL in MDA-MB-231 cell extract based on a 1.9 mg/mL extract load.



Cytometric bead array standard curve of MP01399-1, RAD51C Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84537-1-PBS. Detection antibody: 84537-2-PBS. Standard: Ag35070. Range: 0.469-60 ng/mL



Cytometric bead array standard curve of MP01399-2, RAD51C Recombinant Matched Antibody Pair, PBS Only. Capture antibody: 84537-1-PBS. Detection antibody: 84537-3-PBS. Standard: Ag35070. Range: 0.469-60 ng/mL



Biolayer interferometry (BLI) kinetic assays of 84537-1-RR against Human RAD51C were performed. The affinity constant is below 1 pM.