

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: 100ug, Concentration: 1 mg/ml by Nanodrop;	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

Product Information

84537-1-PBS targets RAD51C as part of a matched antibody pair:

MP01399-1: 84537-1-PBS capture and 84537-2-PBS detection (validated in Cytometric bead array)

MP01399-2: 84537-1-PBS capture and 84537-3-PBS detection (validated in Cytometric bead array)

MP01399-3: 84537-4-PBS capture and 84537-1-PBS detection (validated in Sandwich ELISA)

Unconjugated rabbit recombinant monoclonal antibody in PBS only (BSA and azide free) storage buffer at a concentration of 1 mg/mL, ready for conjugation. Created using Proteintech's proprietary in-house recombinant technology. Recombinant production enables unrivalled batch-to-batch consistency, easy scale-up, and future security of supply.

This conjugation ready format makes antibodies ideal for use in many applications including: ELISAs, multiplex assays requiring matched pairs, mass cytometry, and multiplex imaging applications. Antibody use should be optimized by the end user for each application and assay.

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).

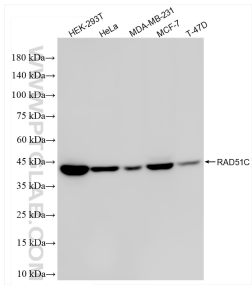
Storage

Storage:
Store at -80°C.
Storage Buffer:
PBS Only

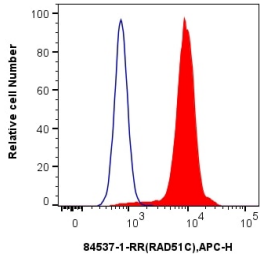
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

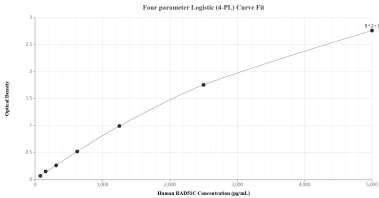
Selected Validation Data



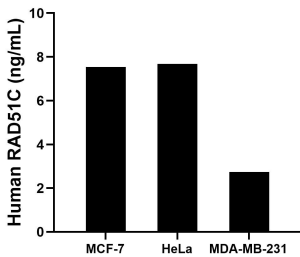
Various lysates were subjected to SDS PAGE followed by western blot with 84537-1-RR (RAD51C antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 84537-1-PBS in a different storage buffer formulation.



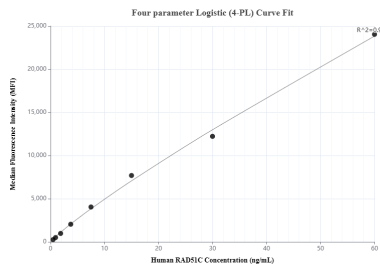
1x10⁶ MCF-7 cells were intracellularly stained with 0.25 ug RAD51C Recombinant antibody (84537-1-RR, Clone:241971D4) and APC-Conjugated Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C). This data was developed using the same antibody clone with 84537-1-PBS in a different storage



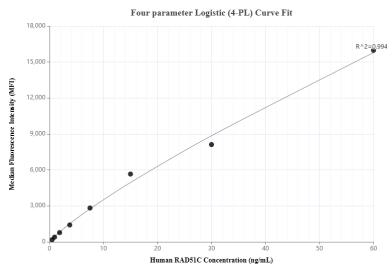
Sandwich ELISA standard curve of MP01399-3, Human RAD51C Recombinant Matched Antibody Pair - PBS only. 84537-4-PBS was coated to a plate as the capture antibody and incubated with serial dilutions of standard Ag35070. 84537-1-PBS was HRP conjugated as the detection antibody. Range: 78.1-5000 pg/mL



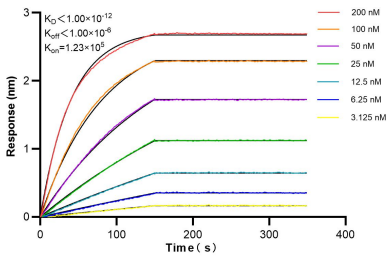
The mean RAD51C concentration was determined to be 7.5 ng/mL in MCF-7 cell extract based on a 1.2 mg/mL extract load, 7.7 ng/mL in HeLa cell extract based on a 1.0 mg/mL extract load and 2.7 ng/mL in MDA-MB-231 cell extract based on a 1.9 mg/mL extract load.



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.