

# PRMT5 Monoclonal Antibody (PRMT5-21)

Product Details	
Size	50 µL
Species Reactivity	Bovine, Dog, Chicken, Hamster, Human, Mouse, Non-human primate, Rat
Published Species	Zebrafish
Host/Isotype	Mouse / IgG2a
Class	Monoclonal
Type	Antibody
Clone	PRMT5-21
Conjugate	Unconjugated
Immunogen	Fusion of mouse myeloma cells and splenocytes from mice immunized with PRMT5 containing the C-terminal region of the Human PRMT5 (residues 315-637).
Form	Liquid
Concentration	2.4 mg/mL
Purification	purified
Storage buffer	0.01M PBS, pH 7.4
Contains	15mM sodium azide
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2253071

Applications	Tested Dilution	Publications
Western Blot (WB)	2 µg/mL	1 Publication
ELISA (ELISA)	Assay-dependent	-
ChIP assay (ChIP)	2.5 µg/10^6 cells	1 Publication

## Product Specific Information

Recommended positive controls: G361.

Product Images For PRMT5 Monoclonal Antibody (PRMT5-21)

PRMT5 Antibody (MA1-25470)

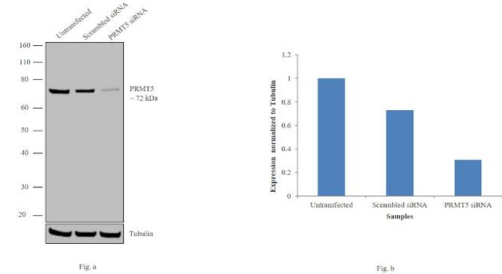
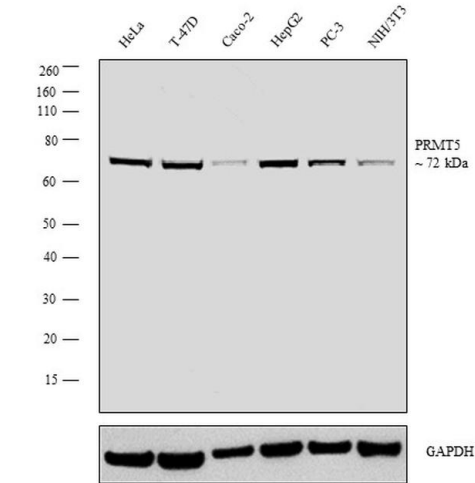
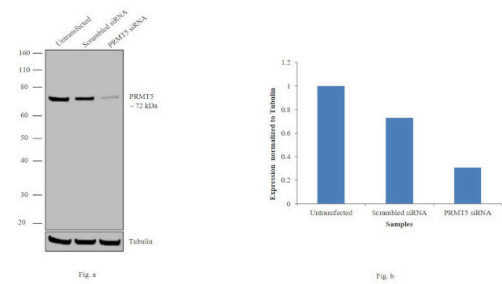
Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. HeLa cells were transfected with PRMT5 siRNA and reduction of signal was observed in Western Blot using PRMT5 Monoclonal Antibody (PRMT521) (Product # MA1-25470). {KD}

PRMT5 Antibody (MA1-25470) in WB

Western blot analysis was performed on modified whole cell extracts (30 µg lysate) of HeLa (Lane 1), T-47D (Lane 2), Caco-2 (Lane 3), HepG2 (Lane 4), PC-3 (Lane 5) and NIH/3T3 (Lane 6). The blot was probed with Anti-PRMT5 Monoclonal Antibody (PRMT5-21) (Product # MA1-25470, 1:1000 dilution) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25 µg/mL, 1:4000 dilution). A 72 kDa band corresponding to PRMT5 was observed in all human and mouse cell line(s) tested.

PRMT5 Antibody (MA1-25470) in WB

Knockdown of PRMT5 was achieved by transfecting HeLa cells with PRMT5 specific siRNAs (Silencer® select Product # s20377). Western blot analysis (Fig. a) was performed using modified whole cell extracts (1% SDS) from the PRMT5 knockdown cells (lane 3), non-specific scrambled siRNA transfected cells (lane 2) and untransfected cells (lane 1). The blots were probed with PRMT5 Monoclonal Antibody (PRMT1) (Product # MA1-25470, 2 µg/mL) and Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.25 µg/mL, 1:4000 dilution). Densitometric analysis of this western blot is shown in histogram (Fig. b). Decrease in signal upon siRNA mediated knock down confirms that antibody is specific to PRMT5.



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

Western Blot (1)

Journal of cellular and molecular medicine	Year 2021
<b>Protein arginine methyltransferase 5 (PRMT5) activates WNT/-catenin signalling in breast cancer cells via epigenetic silencing of DKK1 and DKK3.</b>	
"Published figure using PRMT5 monoclonal antibody (Product # MA1-25470) in Western Blot"	
Authors: Shailesh H,Siveen KS,Sif S	

ChIP assay (1)

PLoS genetics	Year 2021
<b>Prmt5 promotes vascular morphogenesis independently of its methyltransferase activity.</b>	Species Zebrafish
"MA1-25470 was used in ChIP assay to study the role of the Protein Arginine Methyl Transferase Prmt5 during blood vessel formation and hematopoiesis in a zebrafish model."	
Authors: Quillien A,Gilbert G,Boulet M,Ethuin S,Waltzer L,Vandel L	

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON-INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (i) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (ii) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (iii) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (iv) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.