

Rabbit anti-Human PRMT6 Polyclonal Antibody | anti-PRMT6 antibody

Anti-PRMT6 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127150	Rabbit	Human	Flow Cytometry, Functional Assay, Western Blot, ELISA

PRODUCT SYNONYMS

PRMT6; Polyclonal Antibody; Anti-PRMT6 Antibody Picoband; Peroxisomal multifunctional enzyme type 2; MFE-2; 17-beta-hydroxysteroid dehydrogenase 4; 17-beta-HSD 4; D-bifunctional protein; DBP; Multifunctional protein 2; MPF-2; Short chain dehydrogenase/reductase family 8C member 1; (3R)-hydroxyacyl-CoA dehydrogenase; 1.1.1.n12; Enoyl-CoA hydratase 2; 4.2.1.107; 4.2.1.119; 3-alpha; 7-alpha; 12-alpha-trihydroxy-5-beta-cholest-24-enoyl-CoA hydratase; HSD17B4; EDH17B4; SDR8C1; anti-PRMT6 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Present in many tissues with highest concentrations in liver, heart, prostate and testis.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-PRMT6 antibody	FCM/FACS (Flow Cytometry), WB (Western Blot), ELISA
Immunogen	E coli-derived human PRMT6 recombinant protein (Position: Q45-D348).
Subcellular Localization	Peroxisome
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins
Protein Function	Bifunctional enzyme acting on the peroxisomal beta- oxidation pathway for fatty acids. Catalyzes the formation of 3-ketoacyl-CoA intermediates from both straight-chain and 2-methyl- branched-chain fatty acids.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of SH-SY5Y cells using anti-PRMT6 antibody (AAA127150). Overlay histogram showing SH-SY5Y cells stained with AAA127150 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PRMT6 Antibody (AAA127150, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of PRMT6 using anti-PRMT6 antibody (AAA127150). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human 293T whole cell lysates, Lane 2: human MCF-7 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-PRMT6 antigen affinity purified polyclonal antibody (#AAA127150) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for PRMT6 at approximately 40 kDa. The expected band size for PRMT6 is at 40 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-PRMT6 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-PRMT6 antibody	Primary Antibodies; Cancer; Cardiovascular; Fatty Acid Oxidation; Fatty Acids; Lipid and Lipoprotein Metabolism; Lipid Metabolism; Lipids/Lipoproteins; Metabolic Signaling Pathways; Metabolism; Pathways and Processes; Redox Metabolism; Signal Transduction
References	1. El-Andaloussi, N., Valovka, T., Touelle, M., Steinacher, R., Focke, F., Gehrig, P., Covic, M., Hassa, P. O., Schar, P., Hubscher, U., Hottiger, M. O. Arginine methylation regulates DNA polymerase beta. Molec. Cell 22: 51-62, 2006. 2. Frankel, A., Yadav, N., Lee, J., Branscombe, T. L., Clarke, S., Bedford, M. T. The novel human protein arginine N-methyltransferase PRMT6 is a nuclear enzyme displaying unique substrate specificity. J. Biol. Chem. 277: 3537-3543, 2002. 3. Guccione, E., Bassi, C., Casadio, F., Martinato, F., Cesaroni, M., Schuchlautz, H., Luscher, B., Amati, B. Methylation of histone H3R2 by PRMT6 and H3K4 by an MLL complex are mutually exclusive. Nature 449: 933-937, 2007.

NCBI AND UNIPROT INFORMATION

NCBI GI #	20137409
NCBI GeneID	55170
UniProt Accession #	Q96LA8; Q5T5Y5; Q6DKI4; Q9NVR8; A3KME1; B4DID8
Molecular Weight	375
NCBI Official Full Name	Protein arginine N-methyltransferase 6
NCBI Official Synonym Full Names	protein arginine methyltransferase 6
NCBI Official Symbol	PRMT6
NCBI Official Synonym Symbols	HRMT1L6
NCBI Protein Information	protein arginine N-methyltransferase 6; HMT1 hnRNP methyltransferase-like 6; histone-arginine N-methyltransferase PRMT6; heterogeneous nuclear ribonucleoprotein methyltransferase-like protein 6
UniProt Protein Name	Protein arginine N-methyltransferase 6
UniProt Gene Name	PRMT6
UniProt Synonym Gene Names	HRMT1L6
UniProt Entry Name	ANM6_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/prmt6-antibody-flow-cytometry-western-blot-elisa/127150>