Rabbit anti-Human, Rat PRMT8 Polyclonal Antibody | anti-PRMT8 antibody

Anti-PRMT8 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19321	**Rabbit**	**Human, Rat**	**Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA**

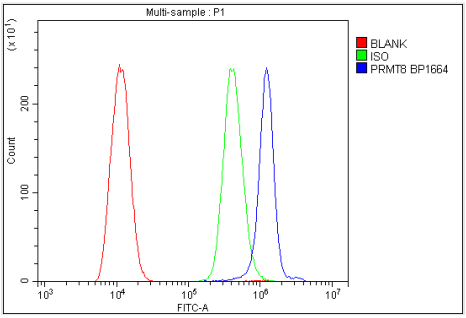
PRODUCT SYNONYMS

PRMT8; Polyclonal Antibody; Anti-PRMT8 Antibody; Protein arginine N-methyltransferase 8; EC 2. 1. 1. 319; Heterogeneous nuclear ribonucleoprotein methyltransferase-like protein 4; HRMT1L3; HRMT1L4; protein arginine methyltransferase 8; anti-PRMT8 antibody

PRODUCT SPECIFICATIONS

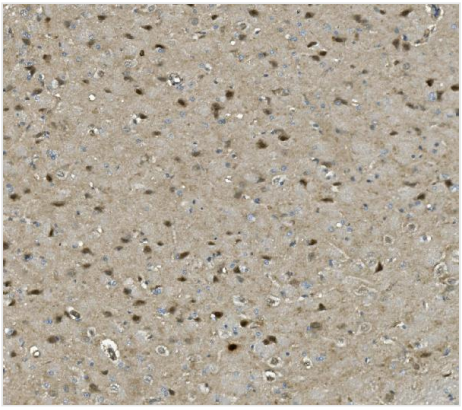
Host	Rabbit
Reactivity	Human, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for PRMT8 detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.01mg NaN3.
Applicable Applications for anti-PRMT8 antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA (Direct ELISA)
Application Notes	WB: 0.25-0.5ug/ml|Human, Rat| IHC-P: 0.5-1ug/ml|Human, Rat| FC/FACS/FCM: 1-3ug/1x106 cells|Human| Direct ELISA: 0.1-0.5ug/ml|Human|
Immunogen	E Coli-derived human PRMT8 recombinant protein (Position: M3-E171).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



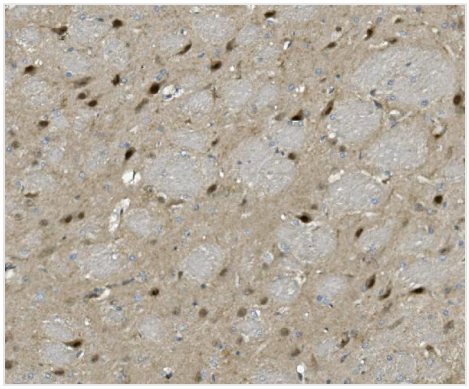
FCM (Flow Cytometry)

Figure 6. Flow Cytometry analysis of THP-1 cells using anti-PRMT8 antibody (AAA19321).Overlay histogram showing THP-1 cells stained with AAA19321 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-PRMT8 Antibody (AAA19321,1μg/1x106 cells) for 30 min at 20 degree C. DyLight®488 conjugated goat anti-rabbit IgG (5-10μg/1x106 cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1μg/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



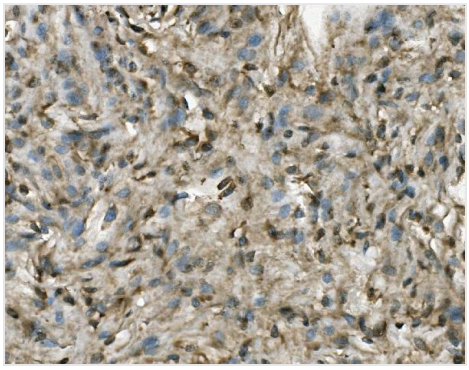
IHC (Immunohistochemistry)

Figure 5. IHC analysis of PRMT8 using anti-PRMT8 antibody (AAA19321).PRMT8 was detected in paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1μg/ml rabbit anti-PRMT8 Antibody (AAA19321) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



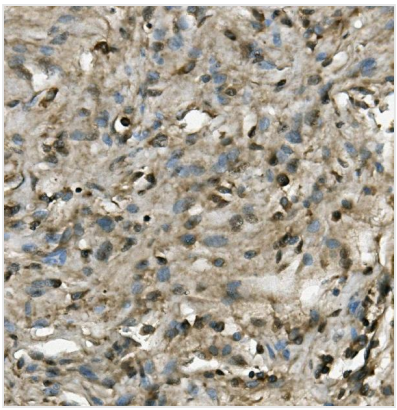
IHC (Immunohistochemistry)

Figure 4. IHC analysis of PRMT8 using anti-PRMT8 antibody (AAA19321).PRMT8 was detected in paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1μg/ml rabbit anti-PRMT8 Antibody (AAA19321) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.

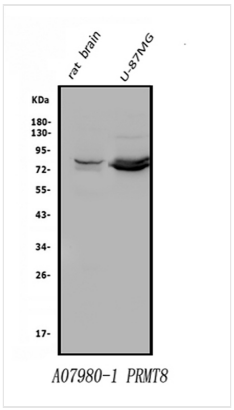


IHC (Immunohistochemistry)

Figure 3. IHC analysis of PRMT8 using anti-PRMT8 antibody (AAA19321).PRMT8 was detected in paraffin-embedded section of human meningeoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1μg/ml rabbit anti-PRMT8 Antibody (AAA19321) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 2. IHC analysis of PRMT8 using anti-PRMT8 antibody (AAA19321).PRMT8 was detected in paraffin-embedded section of human meningeoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1μg/ml rabbit anti-PRMT8 Antibody (AAA19321) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Strepavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen.



WB (Western Blot)
Figure 1. Western blot analysis of PRMT8 using anti-PRMT8 antibody (AAA19321).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 50ug of sample under reducing conditions.Lane 1: rat brain tissue lysatesLane 2: human U-87MG whole cell lysates.After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA 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-PRMT8 antigen affinity purified polyclonal antibody (Catalog # AAA19321) at 0. 5 μg/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 1:10000 for 1. 5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # with Tanon 5200 system. A specific band was detected for PRMT8 at approximately 78KD. The expected band size for PRMT8 is at 45KD.

ADDITIONAL INFORMATION

Related Product Information for anti-PRMT8 antibody	Arginine methylation is a widespread posttranslational modification mediated by arginine methyltransferases, such as PRMT8. Arginine methylation is involved in a number of cellular processes, including DNA repair, RNA transcription, signal transduction, protein compartmentalization, and possibly protein translation.
References	1. Aubert, J., Stavridis, M. P., Tweedie, S., O'Reilly, M., Vierlinger, K., Li, M., Ghazal, P., Pratt, T., Mason, J. O., Roy, D., Smith, A. Screening for mammalian neural genes via fluorescence-activated cell sorter purification of neural precursors from Sox1-gfp knock-in mice. Proc. Nat. Acad. Sci. 100: 11836-11841, 2003. 2. Lee, J., Sayegh, J., Daniel, J., Clarke, S., Bedford, M. T. PRMT8, a new membrane-bound tissue-specific member of the protein arginine methyltransferase family. J. Biol. Chem. 280: 32890-32896, 2005. 3. Wolf, S. S. The protein arginine methyltransferase family: an update about function, new perspectives and the physiological role in humans. Cell. Molec. Life Sci. 66: 2109-2121, 2009.

NCBI AND UNIPROT INFORMATION

NCBI GI #	88983969
NCBI GeneID	56341
UniProt Accession #	Q9NR22; Q8TBJ8; B2RDP0
Molecular Weight	394
NCBI Official Full Name	Protein arginine N-methyltransferase 8
NCBI Official Synonym Full Names	protein arginine methyltransferase 8
NCBI Official Symbol	PRMT8
NCBI Official Synonym Symbols	HRMT1L3; HRMT1L4
NCBI Protein Information	protein arginine N-methyltransferase 8; HMT1 hnRNP methyltransferase-like 3; protein arginine N-methyltransferase 4; heterogeneous nuclear ribonucleoprotein methyltransferase-like protein 4
UniProt Protein Name	Protein arginine N-methyltransferase 8
UniProt Gene Name	**PRMT8**

UniProt Synonym Gene Names	HRMT1L3; HRMT1L4
UniProt Entry Name	ANM8_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
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