



# PRMT1 Monoclonal Antibody

|                           |                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>         | BYab-19783                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Isotype</b>            | IgG                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Reactivity</b>         | Human;Mouse;Rat;Dog;Rabbit                                                                                                                                                                                                                                                                                                                                                        |
| <b>Applications</b>       | WB                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Name</b>          | PRMT1                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Protein Name</b>       | Protein arginine N-methyltransferase 1                                                                                                                                                                                                                                                                                                                                            |
| <b>Immunogen</b>          | Purified recombinant human PRMT1 protein fragments expressed in E.coli.                                                                                                                                                                                                                                                                                                           |
| <b>Specificity</b>        | PRMT1 Monoclonal Antibody detects endogenous levels of PRMT1 protein.                                                                                                                                                                                                                                                                                                             |
| <b>Formulation</b>        | Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol.                                                                                                                                                                                                                                                      |
| <b>Source</b>             | Monoclonal, Mouse                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purification</b>       | Affinity purification                                                                                                                                                                                                                                                                                                                                                             |
| <b>Dilution</b>           | Western Blot: 1/1000 - 1/2000. Not yet tested in other applications.                                                                                                                                                                                                                                                                                                              |
| <b>Concentration</b>      | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>             | ≥90%                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Storage Stability</b>  | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>           | PRMT1; HMT2; HRMT1L2; IR1B4; Protein arginine N-methyltransferase 1; Histone-arginine N-methyltransferase PRMT1; Interferon receptor 1-bound protein 4                                                                                                                                                                                                                            |
| <b>Observed Band</b>      |                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Cell Pathway</b>       | Nucleus . Nucleus, nucleoplasm . Cytoplasm . Cytoplasm, cytosol . Mostly found in the cytoplasm. Colocalizes with CHTOP within the nucleus. Low levels detected also in the chromatin fraction (By similarity). .                                                                                                                                                                 |
| <b>Tissue Specificity</b> | Widely expressed (PubMed:11097842). Expressed strongly in colorectal cancer cells (at protein level) (PubMed:28040436). Expressed strongly in colorectal cancer tissues compared to wild-type colon samples (at protein level) (PubMed:28040436). Expressed strongly in colorectal cancer tissues compared to wild-type colon samples (PubMed:28040436).                          |
| <b>Function</b>           | enzyme regulation:By BTG1, BTG2 and ILF3.,function:Methylates (mono and asymmetric dimethylation) the guanidino nitrogens of arginyl residues present in a glycine and arginine-rich domain (may methylate HNRNPA1 and histones). Methylates SUPT5H and EWS.,similarity:Belongs to the protein arginine N-methyltransferase family.,subunit:Homodimer and heterodimer with PRMT8. |

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The dimer can then associate to form a homohexamer. Interacts with ILF3, BTG1, BTG2, SUPT5H and interferon-alpha/beta receptor 1. Interacts with NFATC2IP.,

#### Background

This gene encodes a member of the protein arginine N-methyltransferase (PRMT) family. Post-translational modification of target proteins by PRMTs plays an important regulatory role in many biological processes, whereby PRMTs methylate arginine residues by transferring methyl groups from S-adenosyl-L-methionine to terminal guanidino nitrogen atoms. The encoded protein is a type I PRMT and is responsible for the majority of cellular arginine methylation activity. Increased expression of this gene may play a role in many types of cancer. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the long arm of chromosome 5. [provided by RefSeq, Dec 2011],

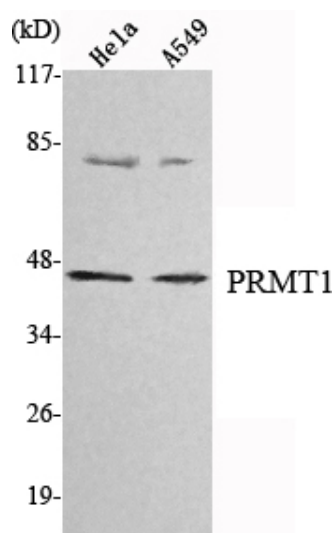
#### matters needing attention

Avoid repeated freezing and thawing!

#### Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

### Products Images



Western Blot analysis using PRMT1 Monoclonal Antibody against HeLa, A549 cell lysate.

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网址: [www.njbybio.com](http://www.njbybio.com)

官方热线: 025-5229-8998

监督电话: 15950492658