

**PRMT1 Monoclonal Antibody**

<b>Catalog No :</b>	YM1084
<b>Reactivity :</b>	Human;Mouse;Rat;Dog;Rabbit
<b>Applications :</b>	WB
<b>Target :</b>	PRMT1
<b>Fields :</b>	>>FoxO signaling pathway;>>Glucagon signaling pathway
<b>Gene Name :</b>	PRMT1
<b>Protein Name :</b>	Protein arginine N-methyltransferase 1
<b>Human Gene Id :</b>	3276
<b>Human Swiss Prot No :</b>	Q99873
<b>Mouse Gene Id :</b>	15469
<b>Mouse Swiss Prot No :</b>	Q9JIF0
<b>Rat Gene Id :</b>	60421
<b>Rat Swiss Prot No :</b>	Q63009
<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>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	WB 1:1000 - 1:2000. Not yet tested in other applications.
<b>Purification :</b>	Affinity purification

**Concentration :** 1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**Molecularweight :** 42kD

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**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],

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

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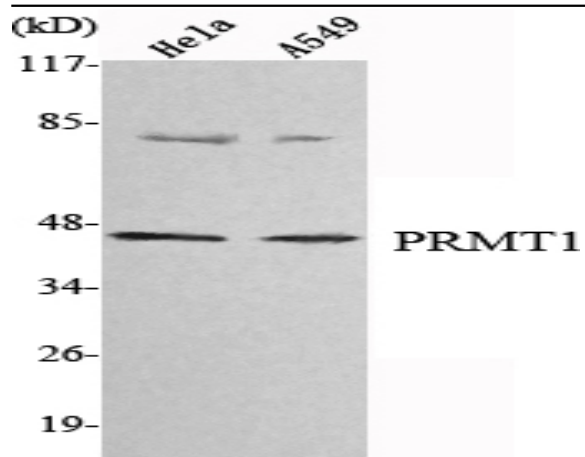
**Subcellular Location :** Nucleus . Nucleus, nucleoplasm . Cytoplasm . Cytoplasm, cytosol . Mostly found in the cytoplasm. Colocalizes with CHTOP within the nucleus. Low levels detected also in the chromatin fraction (By similarity). .

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**Expression :** 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).

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## Products Images



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