

PRMT1 Monoclonal Antibody

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|------------------------------|---|
| Catalog No : | YM1084 |
| Reactivity : | Human;Mouse;Rat;Dog;Rabbit |
| Applications : | WB |
| Target : | PRMT1 |
| Fields : | >>FoxO signaling pathway;>>Glucagon signaling pathway |
| Gene Name : | PRMT1 |
| Protein Name : | Protein arginine N-methyltransferase 1 |
| Human Gene Id : | 3276 |
| Human Swiss Prot No : | Q99873 |
| Mouse Gene Id : | 15469 |
| Mouse Swiss Prot No : | Q9JIF0 |
| Rat Gene Id : | 60421 |
| Rat Swiss Prot No : | Q63009 |
| Immunogen : | Purified recombinant human PRMT1 protein fragments expressed in E.coli. |
| Specificity : | PRMT1 Monoclonal Antibody detects endogenous levels of PRMT1 protein. |
| Formulation : | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| Source : | Monoclonal, Mouse |
| Dilution : | WB 1:1000 - 1:2000. Not yet tested in other applications. |
| Purification : | Affinity purification |

Concentration : 1 mg/ml

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

Molecularweight : 42kD

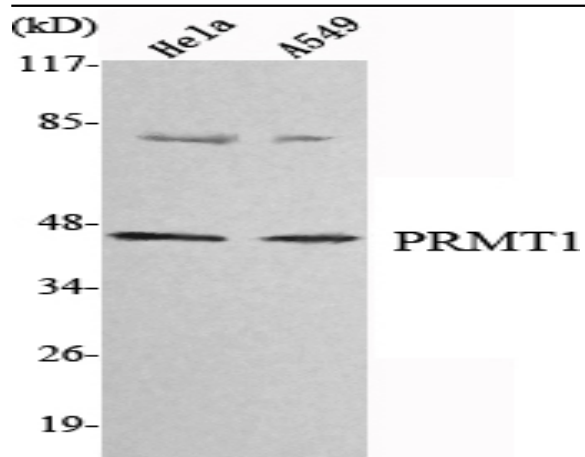
Background : This gene encodes a member of the protein arginine N-methyltransferase (PRMT) family. Post-translational modification of target proteins by PRMTs plays an important regulatory role in many biological processes, whereby PRMTs methylate arginine residues by transferring methyl groups from 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],

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.,

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). .

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).

Products Images



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