

PRMT1 Monoclonal Antibody

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

Q99873

No:

Mouse Gene ld: 15469

Mouse Swiss Prot

Q9JIF0

No:

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

1/3



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).

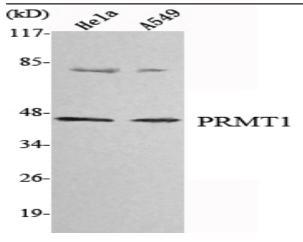
Sort : 13019

No4: 1

Host: Mouse

Modifications: Unmodified

Products Images



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