Best Tools for immunology Research

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 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

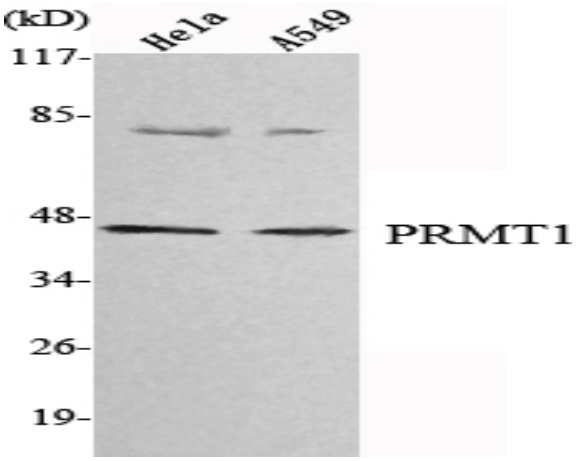
Background : This gene encodes a member of the protein arginine N-methyltransferase (PRMT) family. Post-translational modification of target proteins by PRMTs plays an important regulatory role in many biological processes, whereby PRMTs methylate arginine residues by transferring methyl groups from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