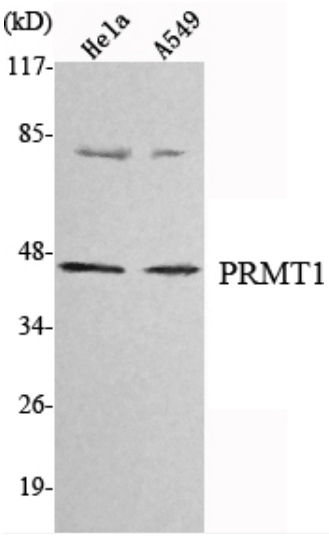
PRMT1 Monoclonal Antibody

Catalog No	YP-Ab-03442
Isotype	IgG
Reactivity	Human;Mouse;Rat;Dog;Rabbit
Applications	WB
Gene Name	PRMT1
Protein Name	Protein arginine N-methyltransferase 1
Immunogen	Purified recombinant human PRMT1 protein fragments expressed in E.coli.
Specificity	PRMT1 Monoclonal Antibody detects endogenous levels of PRMT1 protein.
Formulation	Purified mouse monoclonal in buffer containing 0.1M Tris-Glycine (pH 7.4, 150 mM NaCl) with 0.2% sodium azide, 50% glycerol.
Source	Monoclonal, Mouse
Purification	Affinity purification
Dilution	Western Blot: 1/1000 - 1/2000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PRMT1; HMT2; HRMT1L2; IR1B4; Protein arginine N-methyltransferase 1; Histone-arginine N-methyltransferase PRMT1; Interferon receptor 1-bound protein 4
Observed Band	
Cell Pathway	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). .
Tissue Specificity	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).
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.,
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.