
Product Name: KD-Validated PRMT1 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00726

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 42.5kDa

Antigen Information

Gene Name	PRMT1
Alternative Names	PRMT1; Protein Arginine Methyltransferase 1; HRMT1L2; HCP1; ANM1; HMT1 (HnRNP Methyltransferase, S. Cerevisiae)-Like 2; Histone-Arginine N-MethyltransferasePRMT1; Protein Arginine N-Methyltransferase 1; Interferon Receptor 1-Bound Protein 4; Highly Conserved Protein 1; IR1B4; Heterogeneous Nuclear Ribonucleoprotein Methyltransferase 1-Like 2; HMT1 HnRNP Methyltransferase-Like 2 (S. Cerevisiae); EC 2.1.1.319; EC 2.1.1.77; EC 2.1.1; HMT2
Gene ID	3276.0
SwissProt ID	Q99873
Immunogen	A synthesized peptide derived from human PRMT1

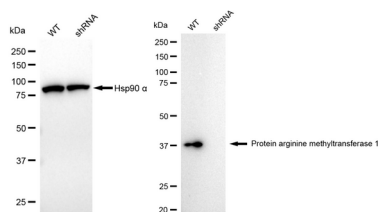
Background

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]

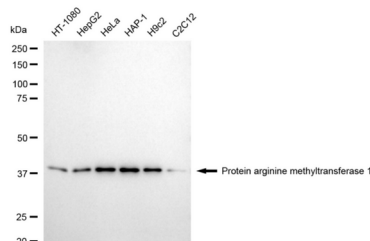
Research Area

Cell Biology, Epigenetics and Nuclear Signaling, Cancer

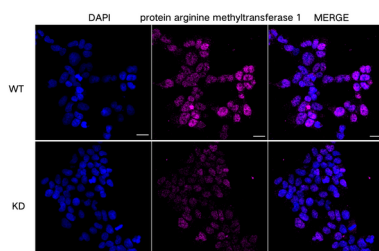
Image Data



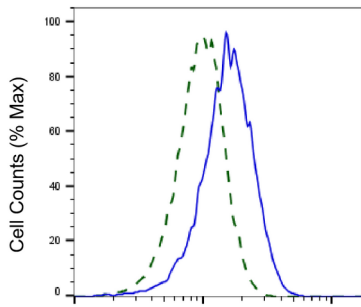
Western blotting analysis using protein arginine methyltransferase 1 antibody (KVA00726). Protein arginine methyltransferase 1 expression in wild-type (WT) and protein arginine methyltransferase 1 (PRMT1) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with protein arginine methyltransferase 1 antibody (KVA00726, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using protein arginine methyltransferase 1 antibody (KVA00726). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with protein arginine methyltransferase 1 antibody (KVA00726, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using protein arginine methyltransferase 1 antibody (KVA00726, 1:1,000), Top panel: wild-type (WT); Bottom panel: protein arginine methyltransferase 1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Protein arginine methyltransferase 1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Protein arginine methyltransferase 1-Alexa
Fluor® 647

Validation of Protein arginine methyltransferase 1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Protein arginine methyltransferase 1 antibody (KVA00726, 1:2,000) and analyzed using BD flow cytometer.