Product Name: KD-Validated PRMT6 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb00906
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: 41.9kDa

Antigen Information

Gene Name	PRMT6
Alternative Names	Protein Arginine Methyltransferase 6; HRMT1L6; Heterogeneous Nuclear Ribonucleoprotein Methyltransferase-Like Protein 6; Histone-Arginine N-Methyltransferase PRMT6; Protein Arginine N-Methyltransferase 6; FLJ10559; HMT1 HnRNP Methyltransferase-Like 6 (S. Cerevisiae); HMT1 HnRNP Methyltransferase-Like 6; EC 2.1.1.319
Gene ID	55170.0
SwissProt ID	Q96LA8
Immunogen	A synthesized peptide derived from human PRMT6

Background

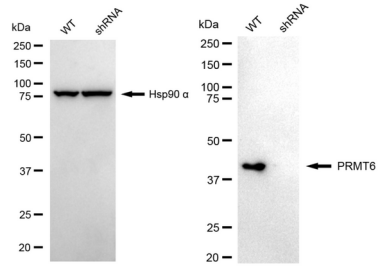
The protein encoded by this gene belongs to the arginine N-methyltransferase family, which catalyze the sequential transfer of

methyl group from S-adenosyl-L-methionine to the side chain nitrogens of arginine residues within proteins, to form methylated arginine derivatives and S-adenosyl-L-homocysteine. This protein can catalyze both, the formation of omega-N monomethylarginine and asymmetrical dimethylarginine, with a strong preference for the latter. It specifically mediates the asymmetric dimethylation of Arg2 of histone H3, and the methylated form represents a specific tag for epigenetic transcriptional repression. This protein also forms a complex with, and methylates DNA polymerase beta, resulting in stimulation of polymerase activity by enhancing DNA binding and processivity. [provided by RefSeq, Sep 2011]

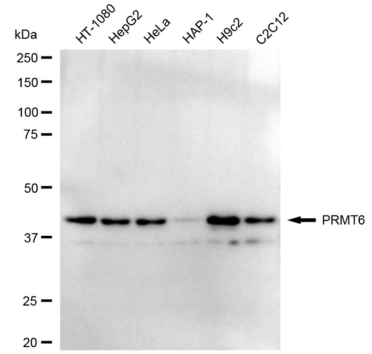
Research Area

Epigenetics and Nuclear Signaling

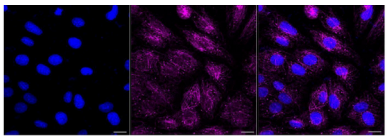
Image Data



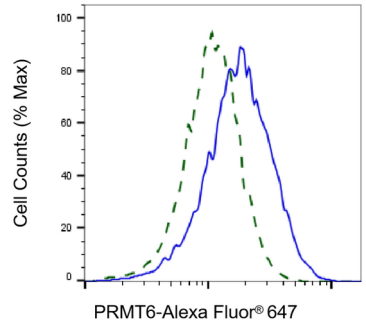
Western blotting analysis using PRMT6 antibody (KVAb00906). PRMT6 expression in wild type (WT) and PRMT6 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with PRMT6 antibody (KVAb00906, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



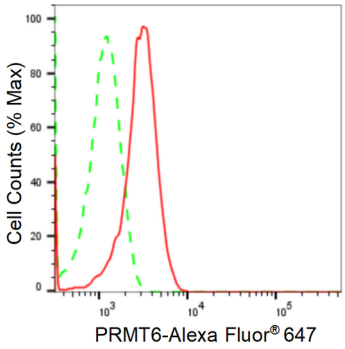
Western blotting analysis using PRMT6 antibody (KVAb00906). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with PRMT6 antibody (KVAb00906, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of H9c2 cells with PRMT6 antibody (KVAb00906, 1:1,000) . Nuclei were stained blue with DAPI; PRMT6 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Validation of PRMT6 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with PRMT6 antibody (KVAb00906, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of PRMT6 expression in H9c2 cells using PRMT6 antibody (KVAb00906, 1:2,000). Green, isotype control; red, PRMT6.