Product Name: KD-Validated PRMT5 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb00970
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
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 1:2,000-1:10,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 72.7kDa

Antigen Information

Gene Name	PRMT5
Alternative Names	Protein Arginine Methyltransferase 5; SKB1Hs; HRMT1L5; SKB1; Histone-Arginine N-Methyltransferase PRMT5; Protein Arginine N-Methyltransferase 5; Shk1 Kinase-Binding Protein 1 Homolog; 72 KDa ICln-Binding Protein; Jak-Binding Protein 1; SKB1 Homolog; IBP72; JBP1; HMT1 HnRNP Methyltransferase-Like 5; Skb1 (S. Pombe) Homolog; SKB1 Homolog (S. Pombe); EC 2.1.1.320; HSL7
Gene ID	10419.0
SwissProt ID	O14744
Immunogen	A synthesized peptide derived from human PRMT5

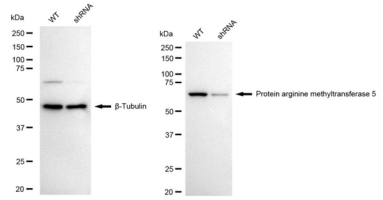
Background

This gene encodes an enzyme that belongs to the methyltransferase family. The encoded protein catalyzes the transfer of methyl groups to the amino acid arginine, in target proteins that include histones, transcriptional elongation factors and the tumor suppressor p53. This gene plays a role in several cellular processes, including transcriptional regulation, and the assembly of small nuclear ribonucleoproteins. A pseudogene of this gene has been defined on chromosome 4. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2015]

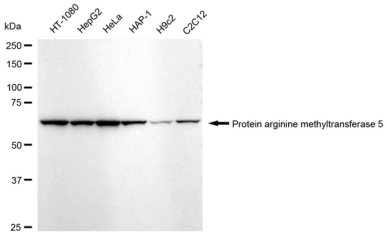
Research Area

Epigenetics and Nuclear Signaling

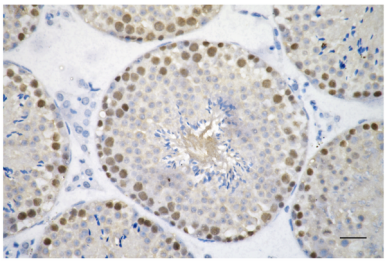
Image Data



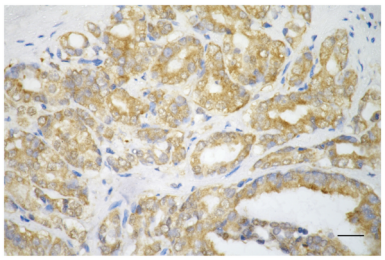
Western blotting analysis using protein arginine methyltransferase 5 antibody (KVAb00970). Protein arginine methyltransferase 5 expression in wild-type (WT) and protein arginine methyltransferase 5 (PRMT5) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with protein arginine methyltransferase 5 antibody (KVAb00970, 1:10,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



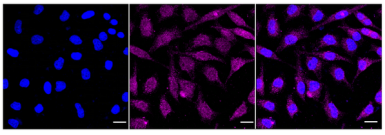
Western blotting analysis using Protein arginine methyltransferase 5 antibody (KVAb00970). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Protein arginine methyltransferase 5 antibody (KVAb00970, 1:10,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



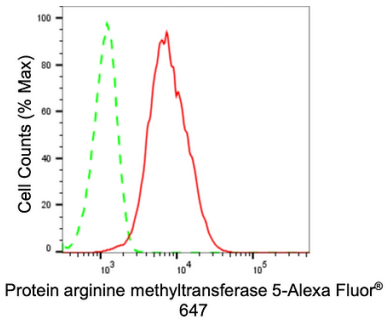
Immunohistochemistry was performed on paraffin-embedded mouse testis tissue using protein arginine methyltransferase 5 antibody (KVAb00970, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunohistochemistry was performed on paraffin-embedded human prostatic adenocarcinoma using protein arginine methyltransferase 5 antibody (KVAb00970, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of Hela cells with Protein arginine methyltransferase 5 antibody (KVAb00970, 1:1,000). Nuclei were stained blue with DAPI; Protein arginine methyltransferase 5 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.



Flow cytometric analysis of Protein arginine methyltransferase 5 expression in HeLa cells using Protein arginine methyltransferase 5 antibody (KVAb00970, 1:2,000). Green, isotype control; red, Protein arginine methyltransferase 5.