

Product Name: KD-Validated Protein Arginine Methyltransferase 7 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01488

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: 78.5kDa

Antigen Information

Gene Name	PRMT7 PRMT7; Protein Arginine Methyltransferase 7; KIAA1933; [Myelin Basic Protein]-Arginine N-
Alternative Names	Methyltransferase PRMT7; Histone-Arginine N-Methyltransferase PRMT7; Protein Arginine N-Methyltransferase 7; FLJ10640; EC 2.1.1.321; EC 2.1.1 48; SBIDDS
Gene ID	54496.0
SwissProt ID	Q9NVM4
Immunogen	A synthesized peptide derived from human PRMT7

Background

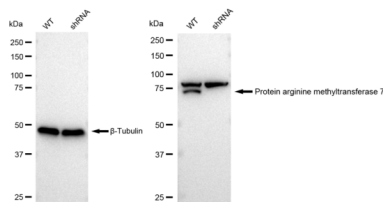
This gene encodes a member of the protein arginine N-methyltransferase family of proteins. The encoded enzyme transfers

single methyl groups to arginine residues to generate monomethylarginines on histone proteins as well as other protein substrates. This enzyme plays a role in a wide range of biological processes, including neuronal differentiation, male germ line imprinting, small nuclear ribonucleoprotein biogenesis, and regulation of the Wnt signaling pathway. Mutations in this gene underlie multiple related syndromes in human patients characterized by intellectual disability, short stature and other features. The encoded protein may promote breast cancer cell invasion and metastasis in human patients. [provided by RefSeq, May 2017]

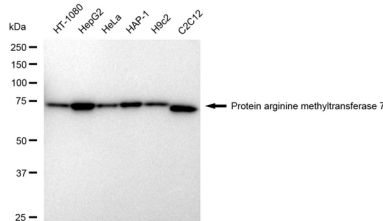
Research Area

Epigenetics and Nuclear Signaling

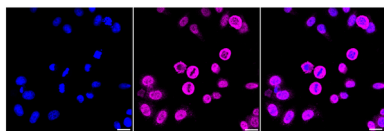
Image Data



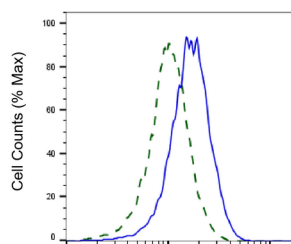
Western blotting analysis using Protein arginine methyltransferase 7 antibody (KVA01488). Protein arginine methyltransferase 7 expression in wild type (WT) and protein arginine methyltransferase 7 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Protein arginine methyltransferase 7 antibody (KVA01488, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Protein arginine methyltransferase 7 antibody (KVA01488). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Protein arginine methyltransferase 7 antibody (KVA01488, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.

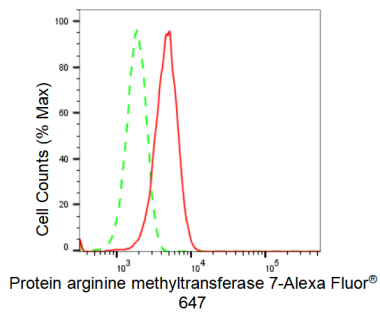


Immunocytochemical staining of HepG2 cells with Protein arginine methyltransferase 7 antibody (KVA01488, 1:1,000). Nuclei were stained blue with DAPI; Protein arginine methyltransferase 7 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Protein arginine methyltransferase 7-Alexa Fluor® 647

Validation of Protein arginine methyltransferase 7 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with Protein arginine methyltransferase 7 antibody (KVA01488, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of Protein arginine methyltransferase 7 expression in HepG2 cells using Protein arginine methyltransferase 7 antibody (KVA01488, 1:2,000). Green, isotype control; red, Protein arginine methyltransferase 7.