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KD-Validated Anti-Protein arginine methyltransferase 7 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1273

Specification

KD-Validated Anti-Protein arginine methyltransferase 7 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	Q9NVM4
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 78 kDa, observed, 75 kDa KDa**
Gene Name	**PRMT7**
Aliases	**PRMT7; Protein Arginine Methyltransferase 7; KIAA1933; [Myelin Basic Protein]-Arginine N-Methyltransferase PRMT7; Histone-Arginine N-Methyltransferase PRMT7; Protein Arginine N-Methyltransferase 7; FLJ10640; EC 2.1.1.321; EC 2.1.1 48; SBIDDS**
Immunogen	**A synthesized peptide derived from human PRMT7**

KD-Validated Anti-Protein arginine methyltransferase 7 Rabbit Monoclonal Antibody - Additional Information

Gene ID **54496**

Other Names
Protein arginine N-methyltransferase 7, 2.1.1.321, Histone-arginine N-methyltransferase PRMT7, [Myelin basic protein]-arginine N-methyltransferase PRMT7, PRMT7, KIAA1933

KD-Validated Anti-Protein arginine methyltransferase 7 Rabbit Monoclonal Antibody - Protein Information

Name PRMT7

Synonyms KIAA1933

Function
Arginine methyltransferase that can both catalyze the formation of omega-N monomethylarginine (MMA) and symmetrical dimethylarginine (sDMA), with a preference for the formation of MMA. Specifically mediates the symmetrical dimethylation of arginine residues in the small nuclear ribonucleoproteins Sm D1 (SNRPD1) and Sm D3 (SNRPD3); such methylation being required for the assembly and biogenesis of snRNP core particles. Specifically mediates the symmetric dimethylation of histone H4 'Arg-3' to form H4R3me2s. Plays a role in gene imprinting by being recruited by CTCFL at the H19 imprinted control region (ICR) and methylating histone H4 to form H4R3me2s, possibly leading to recruit DNA methyltransferases at these sites. May also play a role

in embryonic stem cell (ESC) pluripotency. Also able to mediate the arginine methylation of histone H2A and myelin basic protein (MBP) in vitro; the relevance of such results is however unclear in vivo.

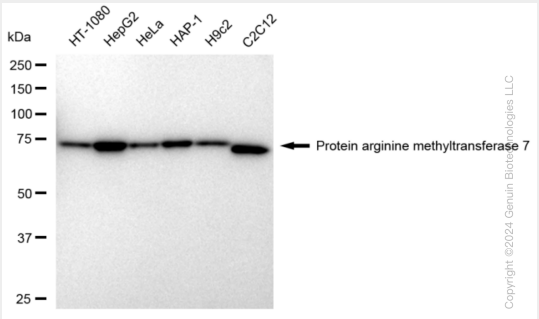
Cellular Location
Cytoplasm, cytosol. Nucleus

KD-Validated Anti-Protein arginine methyltransferase 7 Rabbit Monoclonal Antibody - Protocols

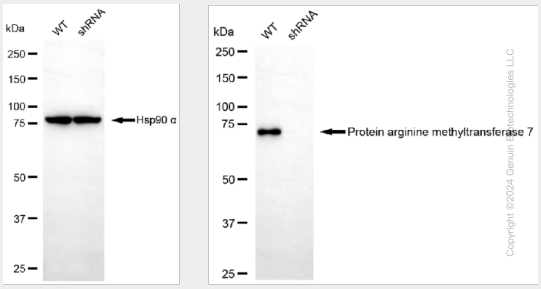
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Protein arginine methyltransferase 7 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Protein arginine methyltransferase 7 antibody (Cat#AGI1273). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Protein arginine methyltransferase 7 antibody (Cat#AGI1273, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Protein arginine methyltransferase 7 antibody (Cat#AGI1273). 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 anti-Protein arginine methyltransferase 7 antibody (Cat#AGI1273, 1:5,000) and HRP-conjugated goat anti-rabbit

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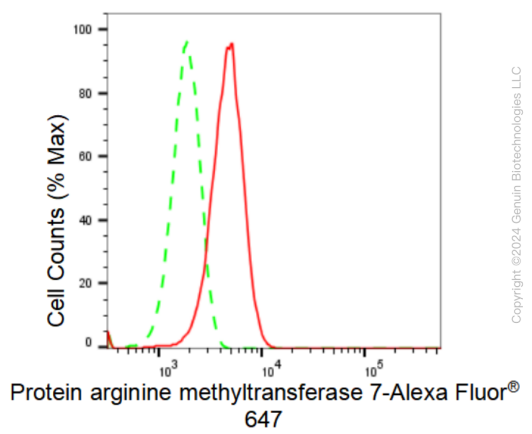
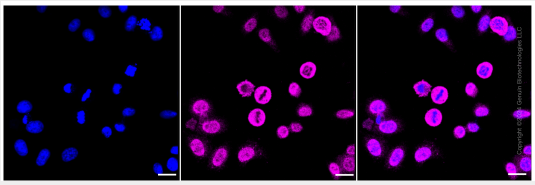
secondary antibody respectively.



Flow cytometric analysis of Protein arginine methyltransferase 7 expression in HepG2 cells using Protein arginine methyltransferase 7 antibody (Cat#AGI1273, 1:2,000). Green, isotype control; red, Protein arginine methyltransferase 7.



Immunocytochemical staining of HepG2 cells with Protein arginine methyltransferase 7 antibody (Cat#AGI1273, 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.