ANM7 Rabbit pAb

CatalogNo: YT7516

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse,Rat

Applications
- WB

MW
- 76kD (Calculated)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-2000

Storage

Storage*	-15°C to -25°C/1 year(Do not lower than -25°C)
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality	Polyclonal

Immunogen Information

Immunogen	Synthesized peptide derived from human ANM7 AA range: 120-170
Specificity	This antibody detects endogenous levels of ANM7 at Human/Mouse/Rat

Target Information

Gene name	PRMT7 KIAA1933

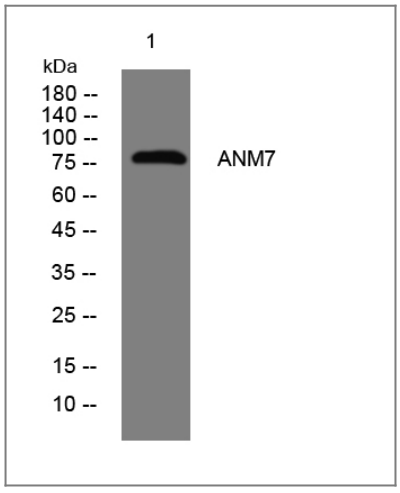
Protein Name ANM7

Organism	Gene ID	UniProt ID
Human	54496;	Q9NVM4;
Mouse	214572;	Q922X9;
Rat	361402;	Q5U4E8;

Cellular Localization Cytoplasm, cytosol . Nucleus .

Function Catalytic activity:S-adenosyl-L-methionine + [myelin basic protein]-arginine = S-adenosyl-L-homocysteine + [myelin basic protein]-N(omega)-methyl-arginine.,Catalytic activity:S-adenosyl-L-methionine + histone-arginine = S-adenosyl-L-homocysteine + histone-N(omega)-methyl-arginine.,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 H4R3sme2. Plays a role in gene imprinting by being recruited by CTCFL at the H19 imprinted control region (ICR) and methylating histone H4 to form H4R3sme2, 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.,miscellaneous:May be involved in etoposide-induced cytotoxicity, a chemotherapeutic agent frequently used for testicular cancer and small-cell lung cancer that can cause cytotoxicity in the treatment of other cancers. Down-regulation confers increased sensitivity to the Top1 inhibitor camptothecin (CPT).,similarity:Belongs to the protein arginine N-methyltransferase family. PRMT7 subfamily.,subunit:Homodimer and heterodimer (By similarity). Interacts with CTCFL (By similarity). Interacts with PRMT5 and SNRPD3.,

Validation Data



Western blot analysis of lysates from HpeG2 cells, primary antibody was diluted at 1:1000, 4°over night

Contact information

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