ANM5 Rabbit pAb

CatalogNo: YN3030 Orthogonal Validated

Key Features

Host Species
- Rabbit

Reactivity
- Human,Mouse

Applications
- WB,ELISA

MW
- 70kD (Observed)

Isotype
- IgG

Recommended Dilution Ratios

WB 1:500-2000
ELISA 1:5000-20000

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 part region of human protein
Specificity	ANM5 Polyclonal Antibody detects endogenous levels of protein.

Target Information

Gene name	PRMT5 HRMT1L5 IBP72 JBP1 SKB1

Protein Name Protein arginine N-methyltransferase 5 (72 kDa ICln-binding protein) (Histone-arginine N-methyltransferase PRMT5) (Jak-binding protein 1) (Shk1 kinase-binding protein 1 homolog) (SKB1 homolog) (SKB1Hs) [Cleaved into: Protein arginine N-methyltransferase 5, N-terminally processed]

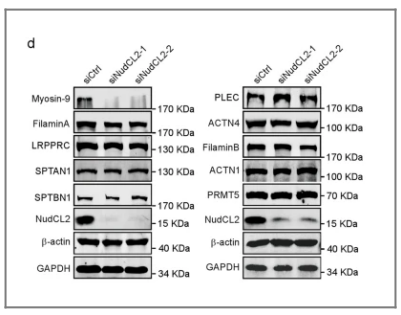
Organism	Gene ID	UniProt ID
Human	10419;	O14744;
Mouse		Q8CIG8;

Cellular Localization Cytoplasm . Nucleus . Chromosome . Golgi apparatus . Localizes to promoter regions of target genes on chromosomes. .

Tissue specificity Ubiquitous.

Function Alternative products:A number of isoforms are produced. According to EST sequences,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. Methylates SUPT5H. Mono- and dimethylates arginine residues of myelin basic protein (MBP) in vitro. Plays a role in the assembly of snRNP core particles. May play a role in cytokine-activated transduction pathways. Negatively regulates cyclin E1 promoter activity and cellular proliferation. May regulate the SUPT5H transcriptional elongation properties. May be part of a pathway that is connected to a chloride current, possibly through cytoskeletal rearrangement. Methylates histone H2A and H4 'Arg-3' during germ cell development. Methylates histone H3 'Arg-8', which may repress transcription.,PTM:Disulfide bonds and non-covalent association mediate homooligomers formation.,similarity:Belongs to the protein arginine N-methyltransferase family.,subunit:Forms, at least, homodimers and homotetramers. Interacts with PRDM1 (By similarity). Component of the methylosome, a 20S complex containing at least pICLn, PRMT1/SKB1 and MEP50. Component of a high molecular weight E2F-pocket protein complex, CERC (cyclin E1 repressor complex). Also interacts with Sm proteins, JAK2, SSTR1 and SUPT5H. Associates with SWI/SNF remodeling complexes containing SMARCA2 and SMARCA4. Interacts with PRMT7 and SNRPD3. Interacts with COPR5/C17orf79; promoting its recruitment on histone H4.,tissue specificity:Ubiquitous.,

Validation Data



Chen, W., Wang, W., Sun, X. et al. NudCL2 regulates cell migration by stabilizing both myosin-9 and LIS1 with Hsp90. Cell Death Dis 11, 534 (2020).

Contact information

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