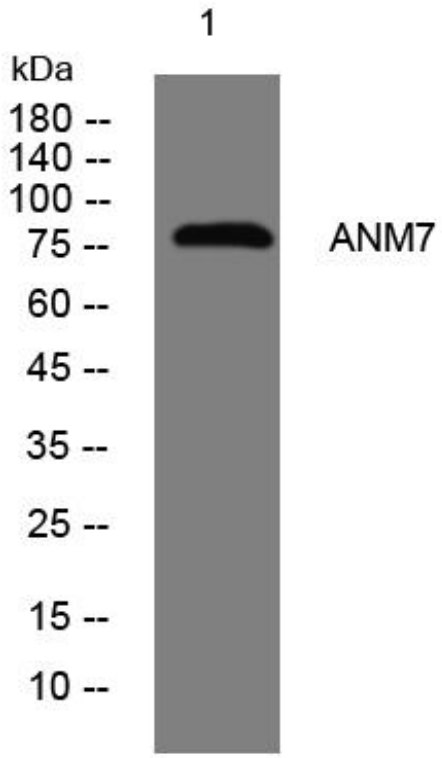
# ANM7 mouse mAb

| | |
|---|---|
| **Catalog No** | YP-mAb-12150 |
| **Isotype** | IgG |
| **Reactivity** | Human;Mouse;Rat |
| **Applications** | WB |
| **Gene Name** | PRMT7 KIAA1933 |
| **Immunogen** | Synthesized peptide derived from human ANM7 AA range: 120-170 |
| **Specificity** | This antibody detects endogenous levels of ANM7 at Human/Mouse/Rat |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Source** | Monoclonal, Mouse,IgG |
| **Purification** | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Dilution** | WB 1:500-1:2000 |
| **Concentration** | 1 mg/ml |
| **Purity** | ≥90% |
| **Storage Stability** | -20°C/1 year |
| **Synonyms** | [Myelin basic protein]-arginine N-methyltransferase PRMT7;ANM7_HUMAN; FLJ164;Histone-arginine N-methyltransferase PRMT7;KIAA1933;Myelin basic protein arginine N methyltransferase;OTTHUMP174863;PRMT7;Protein arginine methyltransferase 7;Protein arginine N-methyltransferase 7;ANM7;PRMT7 KIAA1933 |
| **Observed Band** | |
| **Calculated Molecular Weight** | 79kD |
| **Cell Pathway** | Cytoplasm, cytosol . Nucleus . |
| **Tissue Specificity** | |
| **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 ( |
| **Background** | Arginine methylation is an apparently irreversible protein modification catalyzed by arginine methyltransferases, such as PMT7, using S-adenosylmethionine (AdoMet) as the methyl donor. Arginine methylation is implicated in signal transduction, RNA transport, and RNA splicing (Miranda et al., 2004 [PubMed 15044439]).[supplied by OMIM, Mar 2008], |
| **matters needing attention** | Avoid repeated freezing and thawing! |
| **Usage suggestions** | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel. |

## Products Images




Western Blot analysis of various cells using ANM7 mouse mAb