Data Sheet (Cat.No.TMAC-03425)

TargetMol

Anti-PRMT1 Antibody (6O126)

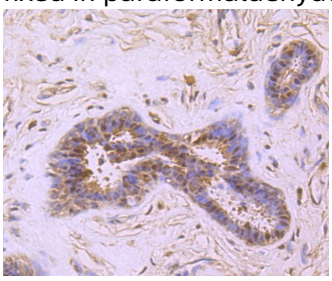
Product Details

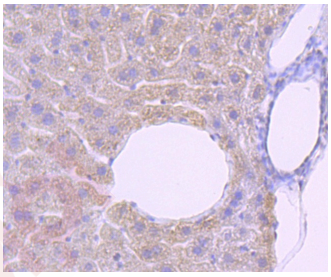
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 42 kDa.
Clone:	6O126
Purification:	ProA affinity purified

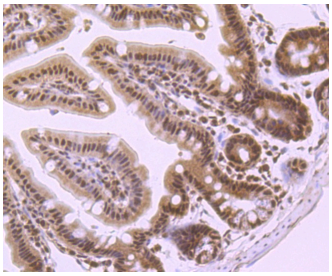
Applications

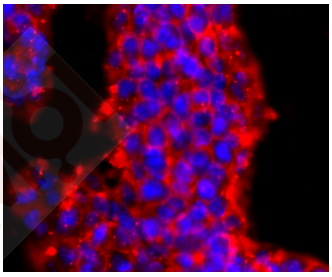
Verified Activity:

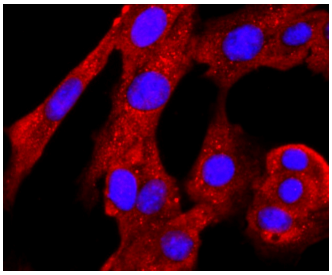
1. Immunohistochemical analysis of paraffin-embedded human breast cancer tissue using anti-PRMT1 antibody. Counter stained with hematoxylin.
2. Immunohistochemical analysis of paraffin-embedded mouse liver tissue using anti-PRMT1 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-PRMT1 antibody. Counter stained with hematoxylin.
4. ICC staining PRMT1 in D3 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
5. ICC staining PRMT1 in NIH-3T3 cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
6. ICC staining PRMT1 in Hela cells (red). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
7. ICC staining PRMT1 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
8. ICC staining PRMT1 in SW480 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

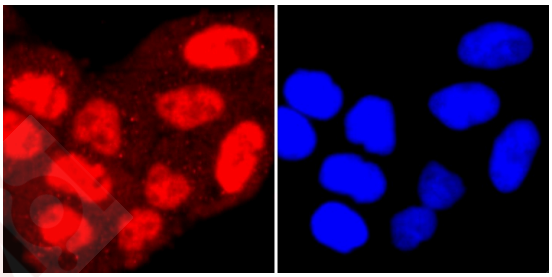


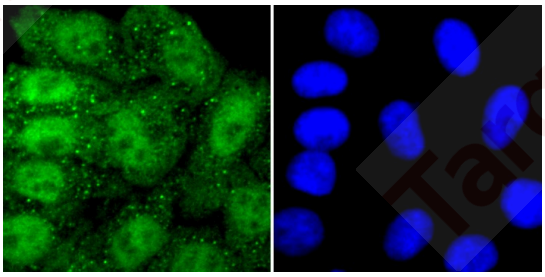


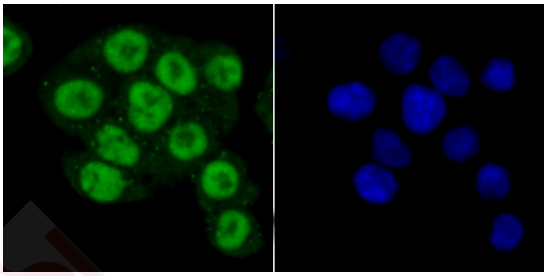












Application:	ChIP,ICC/IF,IHC,WB
Recommended	WB: 1:500-1000; IHC: 1:50-200; ICC/IF: 1:100-500

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: Q99873

Synonyms: HRMT1 L2;Protein arginine N-methyltransferase 1;Heterogeneous nuclear ribonucleoproteins methyltransferase like 2;Protein arginine N methyltransferase1;Interferon receptor 1 bound protein4;Protein arginine N methyltransferase 1;ANM 1;HCP 1;IR1B 4;Human mRNA for suppressor for yeast mutant;IR1 B4;Human mRNA for suppressor for yeast mutant complete cds;HMT2;HMT1 hnRNP methyltransferase like 2 (S. cerevisiae);HMT1 (hnRNP methyltransferase S. cerevisiae) like 2;S. cerevisiae like 2;HMT1 hnRNP methyltransferase like 2;Mrmt1;IR1B4; HRMT1L2;Interferon receptor 1bound protein 4;ANM1_HUMAN;ANM1;HRMT1L 2;PRMT 1;Mrmt 1; R1B4;Histone-arginine N-methyltransferase PRMT1;Heterogeneous nuclear ribonucleoprotein methyltransferase 1 like 2;Protein arginine methyltransferase 1;HMT 2;Interferon receptor 1 bound protein 4;Interferon receptor 1-bound protein 4;HCP1;Heterogeneous nuclear ribonucleoproteins methyltransferase like2;HMT1 hnRNP methyltransferase;PRMT1

Research Background

A class of proteins termed type 1 protein arginine N-methyltransferase (PRMT) enzymes contribute to posttranslational modification of RNA-binding proteins, but differ in substrate specificities, oligomerization properties and subcellular localization. PRMT1, the predominant form in mammalian cells, is located in the nucleus, while PRMT3 is present in the cytoplasm. At the carboxy-terminus, interleukin enhancer-binding factor 3 (ILF3) binds PRMT1, thereby regulating PRMT1 activitiy. Alternative mRNA splicing of the PRMT gene results in three isoforms of PRMT1 that differ in their amino-terminus regions. All three splice variants of PRMT1 are enzymatically active. PRMT3 recognizes and binds to RNA-associated substrates with a zinc-finger domain in its amino-terminus. The zinc-liganded form of this domain is required for the enzyme to recognize RNA-associated substrates.

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