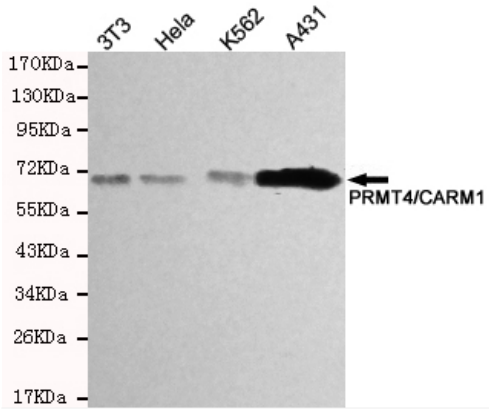
PRMT4/CARM1 mouse mAb

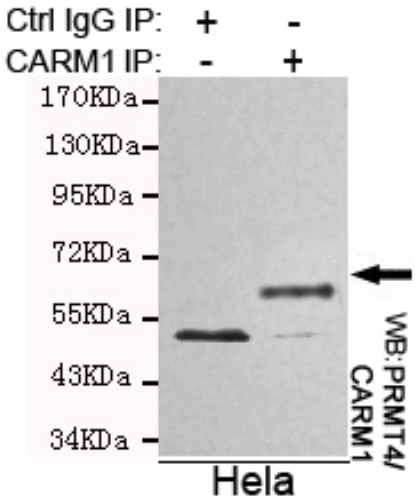
Catalog No	YP-Ab-01065
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;IP
Gene Name	carm1
Protein Name	
Immunogen	Purified recombinant human PRMT4/CARM1 protein fragments expressed in E.coli.
Specificity	This antibody detects endogenous levels of PRMT4/CARM1 and does not cross-react with related proteins.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
Dilution	wb 1:200-1:500
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	carm1;CARM1_HUMAN;Coactivator associated arginine methyltransferase 1;Coactivator-associated arginine methyltransferase 1;Histone arginine methyltransferase CARM 1; Histone arginine methyltransferase CARM1;Histone-arginine methyltransferase CARM1;PRMT 4;PRMT4;Protein arginine methyltransferase;Protein arginine N methyltransferase 4; Protein arginine N-methyltransferase 4.
Observed Band	63kD
Cell Pathway	Nucleus . Cytoplasm . Mainly nuclear during the G1, S and G2 phases of the cell cycle (PubMed:19843527). Cytoplasmic during mitosis, after breakup of the nuclear membrane (PubMed:19843527). .
Tissue Specificity	Overexpressed in prostate adenocarcinomas and high-grade prostatic intraepithelial neoplasia.
Function	catalytic activity:S-adenosyl-L-methionine + histone-arginine = S-adenosyl-L-homocysteine + histone-N(omega)-methyl-arginine.,function:Methylates (mono- and asymmetric dimethylation) the guanidino nitrogens of arginyl residues in several proteins involved in DNA packaging, transcription regulation, and mRNA stability. Recruited to promoters upon gene activation together with histone acetyltransferases from EP300/P300 and p160 families, methylates histone H3 at

	'Arg-17' and activates transcription via chromatin remodeling. During nuclear hormone receptor activation and TCF7L2/TCF4 activation, acts synergically with EP300/P300 and either one of the p160 histone acetyltransferases NCOA1/SRC1, NCOA2/GRIP1 and NCOA3/ACTR or CTNNB1/beta-catenin to activate transcription. During myogenic transcriptional activation, acts together with NCOA3/ACTR as a coactivator for MEF2C. During monocyte inflam
Background	This gene belongs to the protein arginine methyltransferase (PRMT) family. The encoded enzyme catalyzes the methylation of guanidino nitrogens of arginyl residues of proteins. The enzyme acts specifically on histones and other chromatin-associated proteins and is involved in regulation of gene expression. The enzyme may act in association with other proteins or within multi-protein complexes and may play a role in cell type-specific functions and cell lineage specification. A related pseudogene is located on chromosome 9. [provided by RefSeq, Aug 2013],
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 detection of PRMT4/CARM1 in Hela,A431 and K562 cell lysates using PRMT4/CARM1 mouse mAb (1:200-1:500 diluted).Predicted band size:63KDa.Observed band size:63KDa.



Immunoprecipitation analysis of Hela cell lysates using PRMT4/CARM1 mouse mAb.