

Product Datasheet

PRMT7 Antibody (orb2634894)

Description	Arginine methylation is an irreversible protein modification catalyzed by Arginine methyltransferases, such as PRMT7, which uses S-adenosylmethionine (AdoMet) as the methyl donor. Arginine methylation is implicated in signal transduction, RNA transport and RNA splicing. PRMT7 has two methyltransferase domains, each containing a putative AdoMet-binding motif. The N-terminal methyltransferase domain closely resembles the catalytic core of PRMT5, and the C-terminal domain is most similar to that of PRMT1. Three PRMT7 splice variants have been identified by database analysis. PRMT7 is localized to the nucleus and cytoplasm and moderate expression is observed in adult brain and lung tissues.
Species/Host	Mouse
Reactivity	Human
Conjugation	Unconjugated
Tested Applications	FACS, IF
Immunogen	Recombinant full-length human protein was used as the immunogen for the PRMT7 antibody.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Application notes	Optimal dilution of the PRMT7 antibody should be determined by the researcher.
Formula	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide
Isotype	Mouse IgG1
Clonality	Monoclonal
Clone Number	PCRP-PRMT7-1A4

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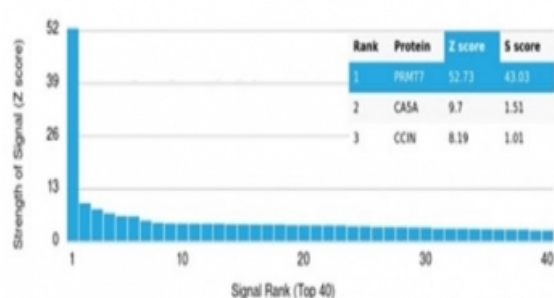
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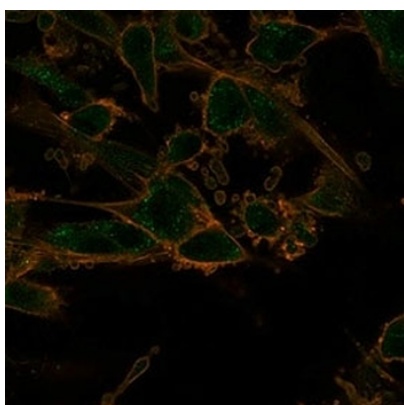
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Antibody Type	Primary Antibody
Uniprot ID	Q9NVM4
Hazard Information	This PRMT7 antibody is available for research use only.
Dilution Range	Flow cytometry: 1-2ug/million cells,Immunofluorescence: 1-2ug/ml
Expiration Date	12 months from date of receipt.

Human Protein Microarray Specificity Validation



Analysis of HuProt (TM) microarray containing more than 19000 full-length human proteins using PRMT7 antibody (clone PCRP-PRMT7-1A4). These results demonstrate the foremost specificity of the PCRP-PRMT7-1A4 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt (TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



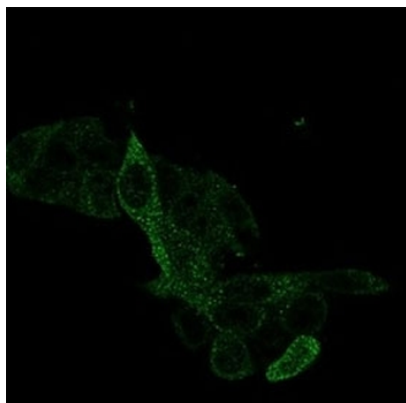
Immunofluorescent staining of PFA-fixed human U-87 cells using PRMT7 antibody (green, clone PCRP-PRMT7-1A4) and phalloidin (red).

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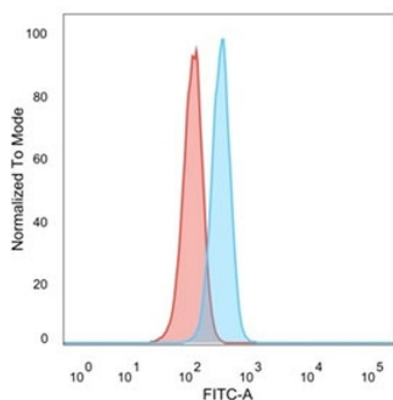
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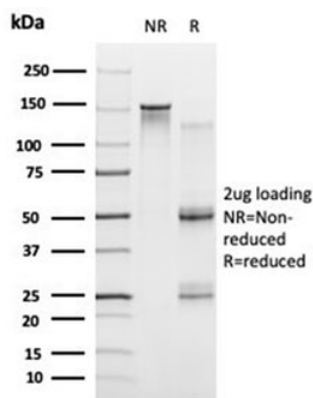
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Immunofluorescent staining of PFA-fixed human HeLa cells using PRMT7 antibody (green, clone PCR-P-PRMT7-1A4).



FACS staining of PFA-fixed human HeLa cells with PRMT7 antibody (blue, clone PCR-P-PRMT7-1A4), and unstained cells (red).



SDS-PAGE analysis of purified, BSA-free PRMT7 antibody (clone PCR-P-PRMT7-1A4) as confirmation of integrity and purity.

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