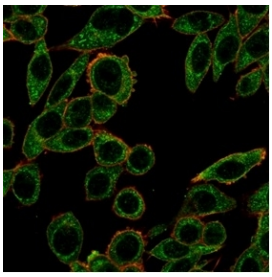
PRMT7 Antibody [clone PCRP-PRMT7-1A7] (V9719)

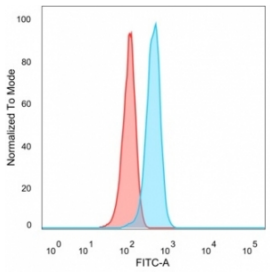
Catalog No.	Formulation	Size
V9719-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	100 ug
V9719-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide	20 ug
V9719SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

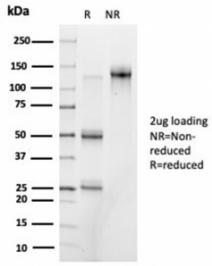
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1
Clone Name	PCRP-PRMT7-1A7
Purity	Protein A/G affinity
UniProt	Q9NVM4
Localization	Nucleus, Cytoplasm
Applications	Immunofluorescence : 1-2ug/ml Flow Cytometry : 1-2ug/million cells
Limitations	This PRMT7 antibody is available for research use only.



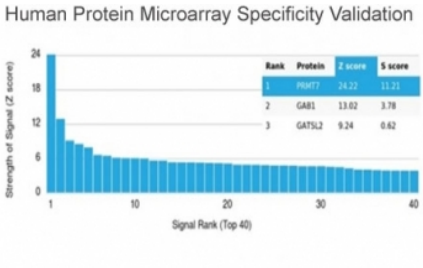
Immunofluorescent staining of PFA-fixed human HeLa cells using PRMT7 antibody (green, clone PCRP-PRMT7-1A7) and phalloidin (red).



FACS staining of PFA-fixed human HeLa cells with PRMT7 antibody (blue, clone PCRP-PRMT7-1A7), and unstained cells (red).



SDS-PAGE analysis of purified, BSA-free PRMT7 antibody (clone PCRP-PRMT7-1A7) as confirmation of integrity and purity.



Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using PRMT7 antibody (clone PCRP-PRMT7-1A7). These results demonstrate the foremost specificity of the PCRP-PRMT7-1A7 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.

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.

Application Notes

Optimal dilution of the PRMT7 antibody should be determined by the researcher.

Immunogen

Recombinant full-length human PRMT7 protein was used as the immunogen for the PRMT7 antibody.

Storage

Aliquot the PRMT7 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.