

Applications: Detected MW: Species & Reactivity:

Isotype:

WB, IP 42 kDa Human, Hamster, Rat, Mouse, Monkey Rabbit IgG

BACKGROUND

The family of Protein Arainine N-Methyltransferases (PRMTs) catalyze the sequential transfer of a methyl group from AdoMet to the side chain nitrogens of arginine residues within proteins to form methylated arginine derivatives and S-adenosyl-L-homocysteine.¹ There are eleven different PRMT genes (PRMT1-11) whose biological function remains under explored. With regard to the dimethylation product, PRMTs are distinguished into type I enzymes, which catalyze the asymmetric NG,NGdimethyl-arginine, and the type II subfamily, which consists of PRMT5, PRMT7, and PRMT9 and symmetric NG,NG'-dimethylation. generates PRMT2 was isolated based on its sequence similarity with PRMT1. So far no methyltransferase activity has been revealed for PRMT2.² PRMTs regulate various cellular processes such as DNA repair and transcription, RNA processing, signal transduction, and nucleo-cytoplasmic localization. Like histone lysine methylation, methylation of histone arginine residues can either induce or inhibit transcription depending on the residue being modified and the type of methylation being introduced.3

References:

1. Litt M et al.: Biosci Rep. 29:131-41, 2009. 2. Meyer R et al.: J Steroid Biochem Mol Biol. 107:1-14, 2007.

3. Lee YH. & Stallcup MR: Mol Endocrinol. 23:425-33, 2009.

TECHNICAL INFORMATION

Source:

PRMT1 Antibody is a rabbit Antibody raised against a short peptide from human PRMT1 sequence.

Specificity and Sensitivity:

This antibody detects endogenous PRMT1 proteins without cross-reactivity with other family members.

Storage Buffer: Solution in 0.01 M phosphate buffered saline, pH 7.4, containing 15 mM sodium azide.

Storage:

Store at -20° C for at least one year. Store at 4° C for frequent use. Avoid repeated freeze-thaw cycles.

APPLICATIONS

Application:	*Dilution:
WB	1-2 ug/mL
IP	2.5-5 ug
IHC	n.d
ICC	n/d
FACS	n/d
*Optimal dilutions must be determined by end user.	

QUALITY CONTROL DATA



Cell extracts were separated on SDS-PAGE and blotted with Anti-PRMT1 at 1 μ g/mL and developed using Goat Anti-Rabbit IgG-Peroxidase and a chemiluminescent substrate. (Left Lane) MCF7 cells; (Middle Lane) Chinese ovary cells; (Right Lane) HEK 293-T cells.

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