

Human/Mouse PRMT1 Antibody

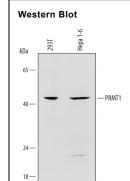
Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF6016

DESCRIPTION	
Species Reactivity	Human/Mouse
Specificity	Detects human and mouse PRMT1 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	E. coli-derived recombinant human PRMT1 Lys218-Arg361 Accession # Q99873
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.

	Recommended Concentration	Sample
Western Blot	0.5 μg/mL	See Below



Detection of Human and Mouse PRMT1 by Western Blot. Western blot shows lysates of 293T human embryonic kidney cell line and Hepa 1-6 mouse hepatoma cell line. PVDF Membrane was probed with 0.5 µg/mL of Goat Anti-Human PRMT1 Polyclonal Antibody (Catalog # AF6016) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF109). A specific band was detected for PRMT1 at approximately 45 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 2.

PREPARATION AND STORAGE		
Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.	
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.	
	*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C	
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.	

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
 - 12 months from date of receipt, -20 to -70 °C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution
 - 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

PRMT/PRMT1 (Protein-Arginine Methyltransferase 1; also HRMT1L2 and HMT2) is a 42-45 kDa type I member of the arginine N-methyltransferase family of enzymes. It is ubiquitously expressed and dimethylates single arginine residue nitrogen atoms in a distributive manner (i.e.-with substrate release following each methlyation step). PRMT1 forms homodimers, and heterodimers with PRMT3, and exists as part of a 300-400 kDa complex in vivo. Human PRMT1 is 361 amino acids in length and contains one adenosyl-L-methionine binding site (aa 85-153) and a phosphorylation site at Tyr299. There are multiple splice variants that show distinct substrate specificities. There is an alternate start site 10 aa upstream of the standard start site, and a single Met, plus a five aa and 11 aa substiuition for aa 1-19. One isoform has a 2 aa substitution for aa 1-20 accompanied by a deketion of aa 52-67. Over aa 218-361, human PRMT1 is 100% identical in aa sequence to mouse PRMT1.

Rev. 2/6/2018 Page 1 of 1

