

DESCRIPTION

Species Reactivity	Human/Mouse
Specificity	Detects human and mouse PRMT1 in Western blots.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	<i>E. coli</i> -derived recombinant human PRMT1 Lys218-Arg361 Accession # Q99873
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide
*Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.	

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.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

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 methylation 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 substitution for aa 1-19. One isoform has a 2 aa substitution for aa 1-20 accompanied by a deletion of aa 52-67. Over aa 218-361, human PRMT1 is 100% identical in aa sequence to mouse PRMT1.

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