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Store at -20C
#2252

PRMT5 Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R Mk	Endogenous	73	Rabbit	#O14744	10419

Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

PRMT5 Antibody detects endogenous levels of total PRMT5 protein. The antibody does not cross-react with other related PRMT proteins.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding amino acid 100 of human PRMT5. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Human Skb1Hs methyltransferase (also called JBP1), a homologue of yeast protein Skb1 and Hsl7p (1,2), is composed of 637 amino acid residues and contains motifs conserved among protein methyltransferases. It methylates histones and MBP in vitro (2). Yeast Hsl7p is involved in regulation of cell cycle progression through G2 by negatively regulating Swe1p, a protein tyrosine kinase that phosphorylates and inhibits Cdc28p (3). An Hsl7p homologue, Skb1, was identified in fission yeast by virtue of its yeast two-hybrid interaction with Shk1p, a p21 (cdc42p/Rac) activated kinase (PAK) (4). Both proteins belong to the protein methyltransferase superfamily (5). Interestingly, human Skb1Hs methyltransferase was shown to interact with Jak kinases. This suggests the possibility that the Skb1Hs methyltransferase could link Jak to a PAK signaling pathway in mammalian cells.

Background References

- Gilbreth, M. et al. (1998) *Proc. Natl. Acad. Sci. USA* 95, 14781-14786.
- Pollack, B.P. et al. (1999) *J. Biol. Chem.* 274, 31531-31542.
- Ma, X.J. et al. (1996) *Genes Dev.* 10, 1327-1340.
- Gilbreth, M. et al. (1996) *Proc. Natl. Acad. Sci. USA* 93, 13802-13807.
- Ma, X.J. et al. (2000) *Trends Biochem. Sci.* 25, 11-12.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween@ 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat **Mk:** Monkey

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