

PRMT5/Skb1Hs Methyltransferase Antibody

✓ 100 µl
(10 western blots)

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This product is intended for research purposes only. This product is not intended to be used for therapeutic or diagnostic purposes in humans or animals.

Applications	Species Cross-Reactivity*	Molecular Wt.	Source
W, IP Endogenous	H, M, R, Mk	70 kDa	Rabbit**

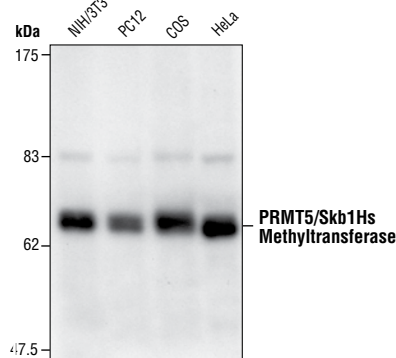
Background: Human Skb1Hs methyltransferase (also called JBP1), a homologue of yeast protein Skb1 and Hsl7p (1,2), is composed of 637 amino acid residues and contains motifs conserved among protein methyltransferases. It methylates histones and MBP *in vitro* (2). Yeast Hsl7p is involved in regulation 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.

Specificity/Sensitivity: PRMT5/Skb1Hs Methyltransferase Antibody detects endogenous levels of total Skb1Hs methyltransferase protein. The antibody does not cross-react with other related mammalian methyltransferases.

Source/Purification: Polyclonal antibodies are produced by immunizing animals with a synthetic peptide (KLH-coupled) corresponding to residues surrounding amino acid 100 of human Skb1Hs methyltransferase. Antibodies are purified by protein A and peptide affinity chromatography.

Background References:

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



Western blot analysis of extracts from various cell types using PRMT5/Skb1Hs Methyltransferase Antibody.

Entrez-Gene ID # 10419
Swiss-Prot Acc. # O14744

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.

*Species cross-reactivity is determined by western blot.

**Anti-rabbit secondary antibodies must be used to detect this antibody.

Recommended Antibody Dilutions:

Western blotting	1:1000
Immunoprecipitation	1:100

For application specific protocols please see the web page for this product at www.cellsignal.com.

Please visit www.cellsignal.com for a complete listing of recommended companion products.

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

Applications Key: W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide
Species Cross-Reactivity Key: H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine
 Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.