Immunotag[™] PRMT5 Antibody

Antibody Specification

Catalog No.	ITA6520
Product Description	Immunotag™ PRMT5 Antibody
Size	100 μg, 200 μg
Conjugation	HRP, Biotin, FITC, Alexa Fluor® 350, Alexa Fluor® 405, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 647
IMPORTANT NOTE	This product is custom manufactured with a lead time of 3-4 weeks. Once in production, this item cannot be cancelled from an order and is not eligible for return.
Target Protein	PRMT5
Clonality	Polyclonal
Storage/Stability	-20°C/1 year
Application	WB,IHC,IF/ICC,ELISA
Recommended Dilution	WB 1:500-1:2000 IHC 1:50-1:200 IF 1:100-500 ELISA(peptide) 1:20000-1:40000
Concentration	1 mg/ml
Reactive Species	Human,Mouse,Rat
Host Species	Rabbit
Immunogen	A synthetic peptideof human PRMT5
Specificity	PRMT5 Antibody detects endogenous levels of total PRMT5
Purification	The antiserum was purified by peptide affinity chromatography.
Form	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.Store at -20 °C.Stable for 12 months from date of receipt
Gene Name	PRMT5
Accession No.	O14744

Antibody Specification

Protein MW	73kDa
Cell Pathway/ Category	Primary Polyclonal Antibody
Description	Arginine methyltransferase that can both catalyze the formation of omega-N monomethylarginine (MMA) and symmetrical dimethylarginine (sDMA), with a preference for the formation of MMA (PubMed:10531356, PubMed:11152681, PubMed:11747828, PubMed:20810653, PubMed:15737618, PubMed:21917714, PubMed:22159986, PubMed:20810653, PubMed:21258366, PubMed:21917714, PubMed:22269951, PubMed:20810653, PubMed:12758366, PubMed:21917714, PubMed:22269951, PubMed:21081503). Specifically mediates the symmetrical dimethylation of arginine residues in the small nuclear ribonucleoproteins Sm D1 (SNRPD1) and Sm D3 (SNRPD3); such methylation being required for the assembly and biogenesis of snRNP core particles (PubMed:12411503, PubMed:11747828, PubMed:17709427). Methylates SUPT5H and may regulate its transcriptional elongation properties (PubMed:12718890). Mono- and dimethylates arginine residues of myelin basic protein (MBP) in vitro. May play a role in cytokine-activated transduction pathways. Negatively regulates cyclin E1 promoter activity and cellular proliferation. Methylates histone H2A and H4 'Arg-3' during germ cell development. Methylates histone H3 'Arg-8', which may repress transcription. Methylates the Piwi proteins (PIWIL1, PIWIL2 and PIWIL4), methylation of Piwi proteins being required for the interaction with Tudor domain-containing proteins and subsequent localization to the meiotic nuage (By similarity). Methylates RPS10. Attenuates EGF signaling through the MAPK1/MAPK3 pathway acting at 2 levels. First, monomethylates GFR; this enhances EGFR 'Tyr-1197' phosphorylation and PTPN6 recruitment, eventually leading to reduced SOS1 phosphorylation (PubMed:21917714, PubMed:21258366). Second, methylates RAF1 and probably BRAF, hence destabilizing these 2 signaling proteins and reducing their catalytic activity (PubMed:21917714). Required for induction of E-selectin and VCAM-1, on the endothelial cells surface at sites of inflammation. Methylates HOXA9 (PubMed:22269951). Methylates and regulates SRGAP2 which is involved in cell
Alternate Names	hnRNP methyltransferase like 5; HOMOLOG OF; SKB1; HRMT1L5; IBP72; Jak-binding protein 1; JBP 1; JBP1; PRMT 5; PRMT5; Protein arginine methyltransferase 5; Protein arginine N methyltransferase 5; Protein arginine N methyltransferase 5 N terminally processed; Protein arginine N-methyltransferase 5; S. POMBE; S. POMBE HOMOLOG OF; SKB1; SHK1 KINASE BINDING PROTEIN 1; Shk1 kinase binding protein 1 homolog; Shk1 kinase-binding protein 1 homolog; Shk1 kinase/binding protein 1, S. pombe, homolog of; SKB 1; SKB1; SKB1 homolog; SKB1: SKB1 homolog (S. pombe); SKB1Hs;

Antibody Specification

Usage

For Research Use Only! Not for diagnostic or therapeutic procedures.

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