

## PRMT1 antibody

### Product Information

Catalog No.:	FNab06789
Size:	100µg
Form:	liquid
Purification:	Immunogen affinity purified
Purity:	≥95% as determined by SDS-PAGE
Host:	Rabbit
Clonality:	polyclonal
Clone ID:	None
IsoType:	IgG
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3, -20°C for 12 months(Avoid repeated freeze / thaw cycles.)

### Background

Arginine methyltransferase that methylates(mono and asymmetric dimethylation) the guanidino nitrogens of arginyl residues present in proteins such as ESR1, histone H2, H3 and H4, PIAS1, HNRNPA1, HNRNPD, NFATC2IP, SUPT5H, TAF15 and EWS. Constitutes the main enzyme that mediates monomethylation and asymmetric dimethylation of histone H4 'Arg-4'(H4R3me1 and H4R3me2a, respectively), a specific tag for epigenetic transcriptional activation. Together with dimethylated PIAS1, represses STAT1 transcriptional activity, in the late phase of interferon gamma(IFN-gamma) signaling. May be involved in the regulation of TAF15 transcriptional activity, act as an activator of estrogen receptor(ER)-mediated transactivation, play a key role in neurite outgrowth and act as a negative regulator of megakaryocytic differentiation, by modulating p38 MAPK pathway. Methylates FOXO1 and retains it in the nucleus increasing its transcriptional activity. Methylates CHTOP and this methylation is critical for its 5-hydroxymethylcytosine(5hmC)-binding activity(PubMed:25284789). Methylates H4R3 in genes involved in glioblastomagenesis in a CHTOP-and/or TET1-dependent manner(PubMed:25284789).

### Immunogen information

Immunogen:	protein arginine methyltransferase 1
Synonyms:	Protein arginine N-methyltransferase 1 Histone-arginine N-methyltransferase PRMT1 Interferon receptor 1-bound protein 4 PRMT1 HMT2 HRMT1L2 IR1B4
Observed MW:	40-42 kDa

Uniprot ID : Q99873

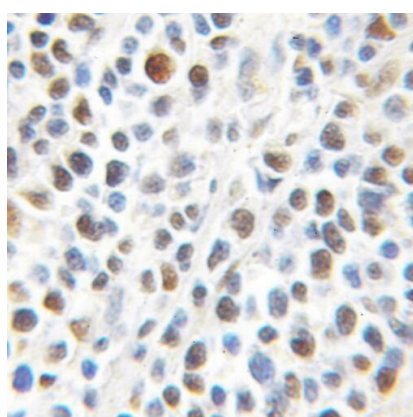
### Application

Reactivity: Human, Mouse, Rat

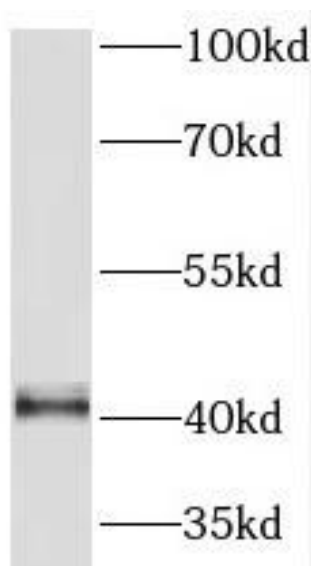
Tested Application: ELISA, IHC, WB

Recommended dilution: WB: 1:500-1:2000; IHC: 1:20-1:200

Image:



Immunohistochemistry of paraffin-embedded human lymphoma using FNab06789(PRMT1 antibody) at dilution of 1:100



A549 cells were subjected to SDS PAGE followed by western blot with FNab06789(PRMT1 Antibody) at dilution of 1:600