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PRMT2 Antibody (internal region)

Peptide-affinity purified goat antibody
Catalog # AF3781a

Specification

PRMT2 Antibody (internal region) - Product Information

Application	**WB**
Primary Accession	P55345
Other Accession	NP_001526.2, NP_001229793.1, NP_001229794.1, NP_001229795.1, 3275, 15468 (mouse), 499420 (rat)
Reactivity	**Human, Mouse, Rat**
Predicted	**Pig, Cow**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**49042**

PRMT2 Antibody (internal region) - Additional Information

Gene ID 3275

Other Names
Protein arginine N-methyltransferase 2, 2.1.1.-, Histone-arginine N-methyltransferase PRMT2, 2.1.1.125, PRMT2, HMT1, HRMT1L1

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
PRMT2 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

PRMT2 Antibody (internal region) - Protein Information

Name PRMT2

Synonyms HMT1, HRMT1L1

Function
Arginine methyltransferase that methylates the guanidino nitrogens of arginyl residues in proteins such as STAT3, FBL, histone H4. Acts as a coactivator (with NCOA2) of the androgen receptor (AR)-

mediated transactivation. Acts as a coactivator (with estrogen) of estrogen receptor (ER)-mediated transactivation. Enhances PGR, PPARG, RARA-mediated transactivation. May inhibit NF-kappa-B transcription and promote apoptosis. Represses E2F1 transcriptional activity (in a RB1- dependent manner). May be involved in growth regulation.

Cellular Location
[Isoform 1]: Cytoplasm. Nucleus. Note=Translocates from the cytoplasm to the nucleus, after hormone exposure. Excluded from nucleolus [Isoform PRMT2Beta]: Cytoplasm. Nucleus. Nucleus, nucleolus [Isoform PRMT2L2]: Cytoplasm. Nucleus Note=Predominantly cytoplasmic

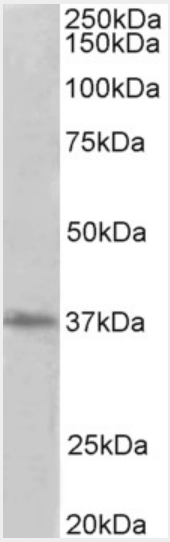
Tissue Location
Widely expressed. Highly expressed in androgen target organs such as heart, prostate, skeletal muscle, ovary and spinal cord.

PRMT2 Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

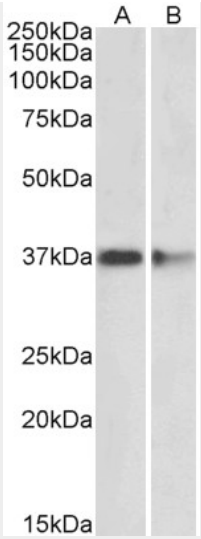
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PRMT2 Antibody (internal region) - Images



AF3781a (2 µg/ml) staining of HeLa lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

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AF3781a (2 µg/ml) staining of Mouse (A) and Rat (B) Brain lysates (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

PRMT2 Antibody (internal region) - Background

This antibody is expected to recognize all reported isoforms (NP_001526.2; NP_001229793.1; NP_001229794.1; NP_001229795.1). Reported variants represent identical protein: NP_001526.2, NP_996845.1

PRMT2 Antibody (internal region) - References

A protein arginine N-methyltransferase 1 (PRMT1) and 2 heteromeric interaction increases PRMT1 enzymatic activity. Pak ML, Lakowski TM, Thomas D, Vhuiyan MI, Hüsecken K, Frankel A. Biochemistry. 2011 Sep 27;50(38):8226-40. PMID: 21851090