10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

PRMT2 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP1003a

Specification

PRMT2 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P55345

PRMT2 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 3275

Other Names
Protein arginine N-methyltransferase 2, 211-, Histone-arginine N-methyltransferase PRMT2, PRMT2, HMT1, HRMT1L1

Target/Specificity
The synthetic peptide sequence is selected from aa 359~375 of human PRMT2.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PRMT2 Antibody (C-term) Blocking Peptide - 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 (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

PRMT2 Antibody (C-term) Blocking Peptide - Images

PRMT2 Antibody (C-term) Blocking Peptide - Background

Arginine methylation is an irreversible post translational modification which has only recently been linked to protein activity. At least three types of PRMT enzymes have been identified in mammalian cells. These enzymes have been shown to have essential regulatory functions by methylation of key proteins in several fundamental areas. These protein include nuclear proteins, IL enhancer binding factor, nuclear factors, cell cycle proteins, signal transduction proteins, apoptosis proteins, and viral proteins. The mammalian PRMT family currently consists of 7 members that share two large domains of homology. Outside of these domains, epitopes were identified and antibodies against all 7 PRMT members have been developed.

PRMT2 Antibody (C-term) Blocking Peptide - References

Wada K, et al. Biochim Biophys Acta. 2002. 1591:1.Cimato TR, et al. J Neurosci Res. 2002. 67:435.Frankel A, et al. J Biol Chem. 2002. 277:3537.Brahms H, et al. RNA. 2001. 7:1531.Pelletier M, et al. Mol Biochem Parasitol. 2001. 118:49.Belyanskaya LL, et al. J Biol Chem. 2001. 276:18681.Rho J, et al. J Biol Chem. 2001. 276:11393.Scorilas A, et al. Biochem Biophys Res Commun. 2000. 278:349.Frankel A, et al. J Biol Chem. 2000. 275:32974.Zhang X, et al. EMBO J. 19:3509.Tang J, et al. J Biol Chem. 1998. 273:16935.