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SMYD2 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP1044b

Specification

SMYD2 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q9NRG4

SMYD2 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 56950

Other Names
N-lysine methyltransferase SMYD2, 211-, HSKM-B, Histone methyltransferase SMYD2, Lysine N-methyltransferase 3C, SET and MYND domain-containing protein 2, SMYD2, KMT3C

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP1044b was selected from the C-term region of human SMYD2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

SMYD2 Antibody (C-term) Blocking Peptide - Protein Information

Name SMYD2

Synonyms KMT3C

Function
Protein-lysine N-methyltransferase that methylates both histones and non-histone proteins, including p53/TP53 and RB1. Specifically trimethylates histone H3 'Lys-4' (H3K4me3) in vivo. The activity requires interaction with HSP90alpha. Shows even higher methyltransferase activity on p53/TP53. Monomethylates 'Lys-370' of p53/TP53, leading to decreased DNA-binding activity and subsequent transcriptional regulation activity of p53/TP53. Monomethylates RB1 at 'Lys-860'.

Cellular Location
Cytoplasm, cytosol. Nucleus

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SMYD2 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

SMYD2 Antibody (C-term) Blocking Peptide - Images

SMYD2 Antibody (C-term) Blocking Peptide - Background

SET domain-containing proteins, such as SMYD2, catalyze lysine methylation (Brown et al., 2006 [PubMed 16805913]).[supplied by OMIM].

SMYD2 Antibody (C-term) Blocking Peptide - References

Abu-Farha,M.,Mol. Cell Proteomics 7 (3), 560-572 (2008)Ewing,R.M.,Mol. Syst. Biol. 3, 89 (2007)