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

SMYD3 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP7344a

Specification

SMYD3 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q9H7B4

SMYD3 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 64754

Other Names
Histone-lysine N-methyltransferase SMYD3, SET and MYND domain-containing protein 3, Zinc finger MYND domain-containing protein 1, SMYD3, ZMYND1, ZNFN3A1

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7344a was selected from the N-term region of human SMYD3. 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.

SMYD3 Antibody (N-term) Blocking Peptide - Protein Information

Name SMYD3

Synonyms ZMYND1, ZNFN3A1

Function
Histone methyltransferase. Specifically methylates 'Lys-4' of histone H3, inducing di- and tri-methylation, but not monomethylation (PubMed:15235609, PubMed:22419068). Also methylates 'Lys-5' of histone H4 (PubMed:22419068). Plays an important role in transcriptional activation as a member of an RNA polymerase complex (PubMed:15235609). Binds DNA containing 5'-CCCTCC-3' or 5'-GAGGGG-3' sequences (PubMed:<a

href="http://www.uniprot.org/citations/15235609" target="_blank">15235609).

Cellular Location
Cytoplasm. Nucleus. Note=Mainly cytoplasmic when cells are arrested at G0/G1. Accumulates in the nucleus at S phase and G2/M.

Tissue Location
Expressed in skeletal muscles and testis. Overexpressed in a majority of colorectal and hepatocellular carcinomas.

SMYD3 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

SMYD3 Antibody (N-term) Blocking Peptide - Images

SMYD3 Antibody (N-term) Blocking Peptide - Background

SMYD3 is a histone methyltransferase that plays a role in transcriptional regulation as a member of an RNA polymerase complex.

SMYD3 Antibody (N-term) Blocking Peptide - References

Zou,J.N., Wang,S.Z. Cancer Lett. 280 (1), 78-85 (2009)Wang,S.Z., Luo,X.G. BMB Rep 41 (4), 294-299 (2008)Wang,H., Liu,Y. Cancer Sci. 99 (4), 787-791 (2008)Barlesi,F., Giaccone,G. Int. J. Cancer 122 (6), 1441-1442 (2008)Hamamoto,R., Silva,F.P. Cancer Sci. 97 (2), 113-118 (2006)