

SMYD3 Antibody

Rabbit mAb Catalog # AP91606

#### **Specification**

# SMYD3 Antibody - Product Information

Application Primary Accession	WB, IHC, FC, ICC, IP 09H7B4
Reactivity	Rat
Clonality	Monoclonal
Other Names	
KMT3E; Smyd3; ZMYND1; ZNFN3A1;	
lsotype Host Calculated MW	Rabbit IgG Rabbit 49097 Da
SMYD3 Antibody - Additional Information	
Purification	Affinity-chromatography

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Immunogen	A synthesized peptide derived from human SMYD3
Description	Histone methyltransferase. Specifically methylates 'Lys-4' of histone H3, inducing di- and tri-methylation, but not monomethylation. Plays an important role in transcriptional activation as a member of an RNA polymerase complex. Binds DNA containing 5'-CCCTCC-3' or 5'-GAGGGGG-3' sequences.
Storage Condition and Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

## SMYD3 Antibody - 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:<a href="http://www.uniprot.org/citations/15235609" target="\_blank">15235609</a>, PubMed:<a href="http://www.uniprot.org/citations/22419068" target="\_blank">22419068</a>). Also methylates 'Lys-5' of histone H4 (PubMed:<a href="http://www.uniprot.org/citations/22419068" target="\_blank">22419068</a>). Also methylates 'Lys-5' of histone H4 (PubMed:<a href="http://www.uniprot.org/citations/22419068" target="\_blank">22419068</a>). Also methylates 'Lys-5' of histone H4 (PubMed:<a href="http://www.uniprot.org/citations/22419068" target="\_blank">22419068</a>). Also



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href="http://www.uniprot.org/citations/15235609" target="\_blank">15235609</a>). Binds DNA containing 5'-CCCTCC-3' or 5'-GAGGGG-3' sequences (PubMed:<a href="http://www.uniprot.org/citations/15235609" target="\_blank">15235609</a>).

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

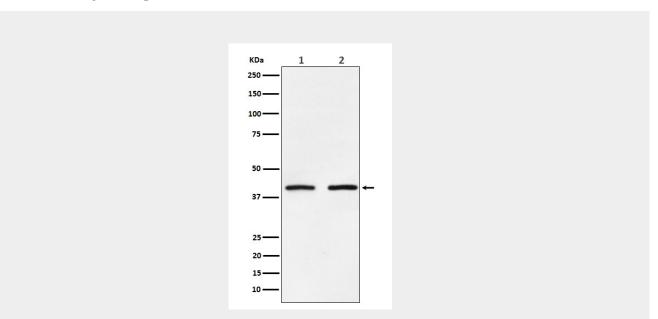
**Tissue Location** Expressed in skeletal muscles and testis. Overexpressed in a majority of colorectal and hepatocellular carcinomas.

## SMYD3 Antibody - 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
- <u>Cell Culture</u>

#### SMYD3 Antibody - Images



Western blot analysis of SMYD3 expression in (1) HeLa cell lysate; (2) NIH/3T3 cell lysate.