

SMYD2 Rabbit pAb

Catalog # AP99915

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q9NRG4
Other Accession	Q9NRG4
Host	Rabbit
Clonality	Polyclonal
Calculated MW	49688
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human SMYD2
Epitope Specificity	245-340/433
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Contains 1 MYND-type zinc finger. Contains 1 SET domain.
SUBUNIT	Interacts with RNA polymerase II and HELZ. Interacts with SIN3A and HDAC1 (By similarity). Interacts (via MYND-type zinc finger) with EPB41L3. Interacts (via SET domain) with p53/TP53. Interacts with RB1 and HSP90AA1.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	SET domain-containing proteins, such as SMYD2, catalyze lysine methylation (Brown et al., 2006 [PubMed 16805913]).[supplied by OMIM, Nov 2008]

Additional Information

Gene ID	56950
Other Names	HSKM-B; KMT3C; ZMYND14; 1110020E07Rik; 4930402C15; SMYD2_BOVIN; SMYD2; Histone methyltransferase SMYD2; SET and MYND domain-containing protein 2; 2.1.1.-; SMYD2_HUMAN; Lysine N-methyltransferase 3C; SMYD2_MOUSE; SMYD2_PIG; SMYD2_RAT; SET and MYND domain containing 2
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.