

KD-Validated Anti-SMYD3 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody

Catalog # AGI1739

Product Information

Application	WB, FC, ICC
Primary Accession	Q9H7B4
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	24GB2260
Calculated MW	49097
Gene Name	SMYD3
Aliases	SMYD3; SET And MYND Domain Containing 3; ZNFN3A1; ZMYND1; KMT3E; Zinc Finger MYND Domain-Containing Protein 1; Histone-Lysine N-Methyltransferase SMYD3 ; SET And MYND Domain-Containing Protein 3; Zinc Finger, MYND Domain Containing 1; Zinc Finger Protein, Subfamily 3A (MYND Domain Containing), 1; EC 2.1.1.354; EC 2.1.1.43; BA74P14.1; EC 2.1.1
Immunogen	A synthesized peptide derived from human SMYD3

Additional Information

Gene ID	64754
Other Names	Histone-lysine N-methyltransferase SMYD3, 2.1.1.354 {ECO:0000255 PROSITE-ProRule:PRU00907, ECO:0000269 PubMed:15235609, ECO:0000269 PubMed:22419068}, SET and MYND domain-containing protein 3, Zinc finger MYND domain-containing protein 1, SMYD3, ZMYND1, ZNFN3A1

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: 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.

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