

anti-Human SMYD3 Polyclonal Antibody | anti-SMYD3 antibody

Anti-SMYD3 Antibody

CATALOG # AAA46332	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot
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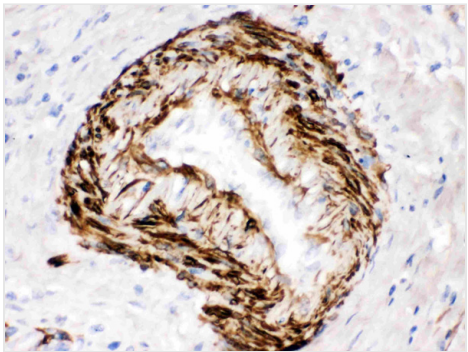
PRODUCT SYNONYMS

SMYD3; Polyclonal Antibody; Anti-SMYD3 Antibody; Histone-lysine N-methyltransferase SMYD3; bA74P14.1 (novel protein); bA74P14.1; FLJ21080; histone lysine N methyltransferase SMYD3; KMT3E; MGC104324; SET and MYND domain containing 3; SET and MYND domain containing protein 3; SET and MYND domain-containing protein 3; SMYD 3; Smyd3; SMYD3 protein; SMYD3_HUMAN; Zinc finger MYND domain containing 1; Zinc finger MYND domain containing protein 1; Zinc finger MYND domain-containing protein 1; Zinc finger protein subfamily 3A MYND domain containing 1; Zinc finger protein; subfamily 3A (MYND domain containing); 1; ZMYND 1; ZMYND1; ZNFN3A1; anti-SMYD3 antibody

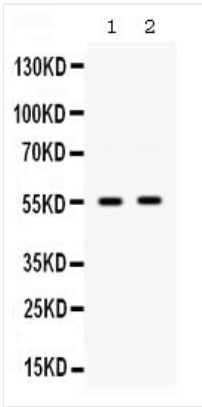
PRODUCT SPECIFICATIONS

Reactivity	Human
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	428
Applicable Applications for anti-SMYD3 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human SMYD3 (388-428aa QAMKNLRLAFDIMRVTHGREHSLIEDLILLEECDANIRAS), different from the related mouse sequence by one amino acid.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



IHC (Immunohistochemistry)
SMYD3 was detected in paraffin-embedded sections of human intestinal cancer tissues using rabbit anti- SMYD3 Antigen Affinity purified polyclonal antibody at 1ug/mL. The immunohistochemical section was developed using SABC method.



WB (Western Blot)
Western blot analysis of SMYD3 expression in HELA whole cell lysates (lane 1) and COLO320 whole cell lysates (lane 2). SMYD3 at 55KD was detected using rabbit anti- SMYD3 Antigen Affinity purified polyclonal antibody at0.5 ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

Related Product Information for anti-SMYD3 antibody	Description: Rabbit IgG polyclonal antibody for Histone-lysine N-methyltransferase SMYD3(SMYD3) detection. Tested with WB, IHC-P in Human. Background: SET and MYND domain-containing protein 3 is a protein that in humans is encoded by the SMYD3 gene. The International Radiation Hybrid Mapping Consortium mapped the SMYD3 gene to chromosome 1. This gene encodes a histone methyltransferase which functions in RNA polymerase II complexes by an interaction with a specific RNA helicase. Multiple transcript variants encoding different isoforms have been found for this gene.
References	1. Hamamoto, R., Furukawa, Y., Morita, M., Iimura, Y., Silva, F. P., Li, M., Yagyu, R., Nakamura, Y. SMYD3 encodes a histone methyltransferase involved in the proliferation of cancer cells. Nature Cell Biol. 6: 731-740, 2004. 2. Mazur, P. K., Reynoird, N., Khatri, P., Jansen, P. W. T. C., Wilkinson, A. W., Liu, S., Barbash, O., Van Aller, G. S., Huddleston, M., Dhanak, D., Tummino, P. J., Kruger, R. G., Garcia, B. A., Butte, A. J., Vermeulen, M., Sage, J., Gozani, O. SMYD3 links lysine methylation of MAP3K2 to Ras-driven cancer. Nature 510: 283-287, 2014. 3. Tsuge, M., Hamamoto, R., Silva, F. P., Ohnishi, Y., Chayama, K., Kamatani, N., Furukawa, Y., Nakamura, Y. A variable number of tandem repeats polymorphism in an E2F-1 binding element in the 5-prime flanking region of SMYD3 is a risk factor for human cancers. Nature Genet. 37: 1104-1107, 2005.

NCBI AND UNIPROT INFORMATION

NCBI GI #	267844824
NCBI GeneID	64754
NCBI Accession #	NP_001161212.1
NCBI GenBank Nucleotide #	NM_001167740.1
UniProt Accession #	Q9H7B4; Q86TL8; Q8N5Z6; Q96AI5; A8K0P0; B1AN38
Molecular Weight	42,625 Da
NCBI Official Full Name	histone-lysine N-methyltransferase SMYD3 isoform 1
NCBI Official Synonym Full Names	SET and MYND domain containing 3
NCBI Official Symbol	SMYD3
NCBI Official Synonym Symbols	KMT3E; ZMYND1; ZNFN3A1; bA74P14.1
NCBI Protein Information	histone-lysine N-methyltransferase SMYD3
UniProt Protein Name	Histone-lysine N-methyltransferase SMYD3

UniProt Gene Name	SMYD3
UniProt Synonym Gene Names	ZMYND1; ZNFN3A1
UniProt Entry Name	SMYD3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/smyd3-antibody-immunohistochemistry-western-blot-elisa/46332>