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Anti-SMYD3 Picoband Antibody
Catalog # ABO12579

Specification

Anti-SMYD3 Picoband Antibody - Product Information

Application	**WB, IHC**
Primary Accession	Q9H7B4
Host	**Rabbit**
Reactivity	**Human**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Histone-lysine N-methyltransferase SMYD3(SMYD3) detection. Tested with WB, IHC-P in Human.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-SMYD3 Picoband Antibody - Additional Information

Gene ID 64754

Other Names
Histone-lysine N-methyltransferase SMYD3, 2.1.1.43, SET and MYND domain-containing protein 3, Zinc finger MYND domain-containing protein 1, SMYD3, ZMYND1, ZNFN3A1

Calculated MW
49097 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, By Heat

Western blot, 0.1-0.5 µg/ml, Human

Subcellular Localization
Cytoplasm . Nucleus . Mainly cytoplasmic when cells are arrested at G0/G1. Accumulates in the nucleus at S phase and G2/M.

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

Protein Name
Histone-lysine N-methyltransferase SMYD3

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the C-terminus of human SMYD3 (388-428aa

QAMKNLRLAFDIMRVTHGREHSLIEDLILLLEECDANIRAS), different from the related mouse sequence by one amino acid.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins.

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-SMYD3 Picoband 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: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.

Anti-SMYD3 Picoband 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
- Cell Culture

Anti-SMYD3 Picoband Antibody - Images

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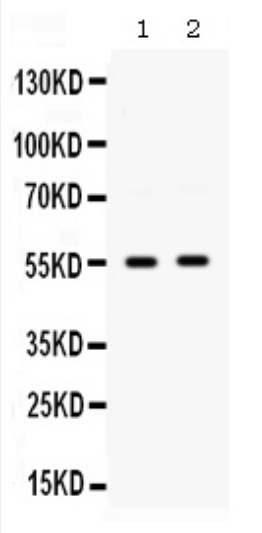
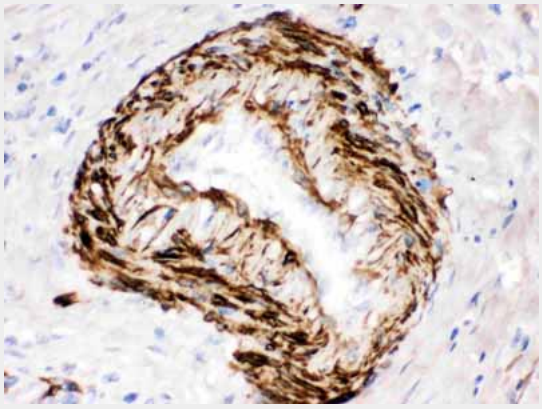


Western blot analysis of SMYD3 expression in HELA whole cell lysates (lane 1) and COLO320 whole cell lysates (lane 2). SMYD3 at 55KD was detected using rabbit anti- SMYD3 Antigen Affinity purified polyclonal antibody (Catalog # ABO12579) at0.5 ??g/mL. The blot was developed using chemiluminescence (ECL) method .



SMYD3 was detected in paraffin-embedded sections of human intestinal cancer tissues using rabbit anti- SMYD3 Antigen Affinity purified polyclonal antibody (Catalog # ABO12579) at 1 Î¼g/mL. The immunohistochemical section was developed using SABC method .

Anti-SMYD3 Picoband Antibody - 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.