10320 Camino Santa Fe, Suite G
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Anti-SMYD2 Antibody

Rabbit polyclonal antibody to SMYD2

Catalog # AP60513

Specification

Anti-SMYD2 Antibody - Product Information

Application	**WB**
Primary Accession	Q9NRG4
Other Accession	Q8R5A0
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**49688**

Anti-SMYD2 Antibody - Additional Information

Gene ID 56950

Other Names
KMT3C; N-lysine methyltransferase SMYD2; HSKM-B; Histone methyltransferase SMYD2; Lysine N-methyltransferase 3C; SET and MYND domain-containing protein 2

Target/Specificity
Recognizes endogenous levels of SMYD2 protein.

Dilution
WB~~WB (1/500 - 1/1000)

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-SMYD2 Antibody - 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'.

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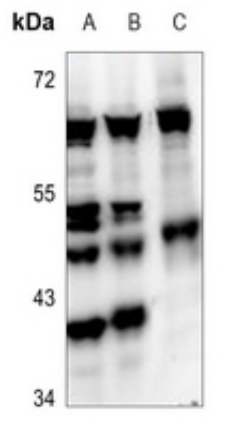
Cellular Location
Cytoplasm, cytosol. Nucleus

Anti-SMYD2 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-SMYD2 Antibody - Images



Western blot analysis of SMYD2 expression in HEK293T (A), MCF7 (B), PC12 (C) whole cell lysates.

Anti-SMYD2 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human SMYD2. The exact sequence is proprietary.