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KMT3C / SMYD2 Antibody
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP53278

Specification

KMT3C / SMYD2 Antibody - Product Information

Application	**WB**
Primary Accession	Q9NRG4
Reactivity	**Human, Mouse**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG2b**
Calculated MW	**50 KDa**

KMT3C / SMYD2 Antibody - Additional Information

Gene ID 56950

Other Names
Histone methyltransferase SMYD2;HSKM B;HSKM-B;HSKMB;KMT3C;Lysine N-methyltransferase 3C; MGC119305;N lysine methyltransferase SMYD2;N-lysine methyltransferase SMYD2;SET and MYND domain containing 2;SET and MYND domain containing protein 2;SET and MYND domain-containing protein 2;Smyd2;SMYD2_HUMAN;Zinc finger MYND domain containing 14;ZMYND14.

Dilution
WB~~1:1000

Format
ascites

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

KMT3C / 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'.

Cellular Location

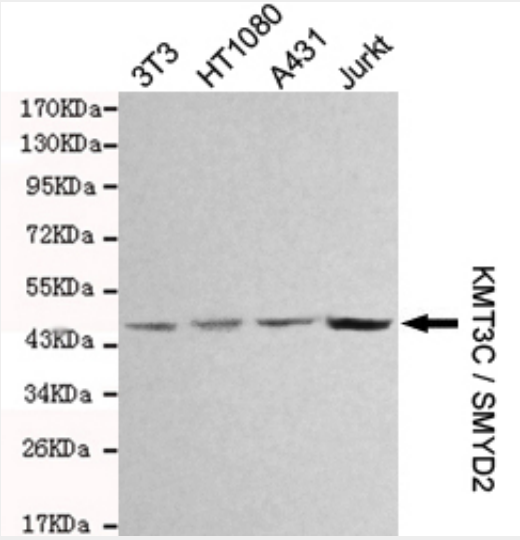
Cytoplasm, cytosol. Nucleus

KMT3C / 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

KMT3C / SMYD2 Antibody - Images



Western blot detection of KMT3C / SMYD2 in 3T3,HT1080,A431 and Jurkat cell lysates and using KMT3C / SMYD2 mouse mAb (1:1000 diluted). Predicted band size: 50KDa.Observed band size: 50KDa.

KMT3C / SMYD2 Antibody - Background

Protein-lysine N-methyltransferase that methylates both histones and non-histone proteins, including p53/TP53 and RB1. Specifically methylates histone H3 'Lys-4' (H3K4me) and dimethylates histone H3 'Lys-36' (H3K36me2). 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'.

KMT3C / SMYD2 Antibody - References

Li Y.,et al.Submitted (JAN-2000) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Gregory S.G.,et al.Nature 441:315-321(2006).
Huang J.,et al.Nature 444:629-632(2006).
Wang C.,et al.Cell Res. 17:374-383(2007).