

SMYD1 Antibody
Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP52666**Specification**

SMYD1 Antibody - Product Information

Application	WB
Primary Accession	Q8NB12
Reactivity	Rat
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Calculated MW	56 KDa

SMYD1 Antibody - Additional Information**Gene ID** 150572**Other Names**

BOP;CD8 beta opposite;CD8b opposite;Histone lysine N methyltransferase SMYD1;KMT3D;SET and MYND domain-containing protein 1;SMYD1;SMYD1_HUMAN;Zinc finger MYND domain containing 18;ZMYND18;ZMYND22;zinc finger, MYND domain containing 18.

Dilution

WB~~1:100

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.

Storage

Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

SMYD1 Antibody - Protein Information**Name** SMYD1**Function**

Methylates histone H3 at 'Lys-4' (H3K4me), seems able to perform both mono-, di-, and trimethylation. Acts as a transcriptional repressor. Essential for cardiomyocyte differentiation and cardiac morphogenesis.

Cellular Location

Cytoplasm. Nucleus.

Tissue Location

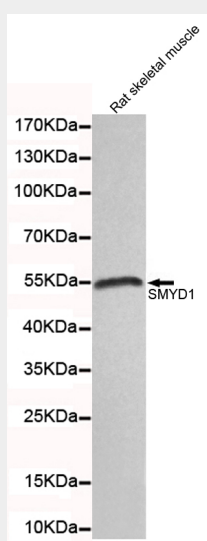
Expression seems mostly restricted to heart and skeletal muscle.

SMYD1 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 Cytometry](#)
- [Cell Culture](#)

SMYD1 Antibody - Images



Western blot detection of SMYD1 in rat skeletal muscle lysates and using SMYD1 mouse mAb (1:100 diluted). Predicted band size: 56KDa. Observed band size: 56KDa.

SMYD1 Antibody - Background

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SMYD1 Antibody - References

Ota T., et al. Nat. Genet. 36:40-45(2004).
Bechtel S., et al. BMC Genomics 8:399-399(2007).
Hillier L.W., et al. Nature 434:724-731(2005).
Li D., et al. Nucleic Acids Res. 37:7059-7071(2009).