

# SMYD1 Antibody

Purified Mouse Monoclonal Antibody (Mab)

Catalog # AP52666

## Product Information

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Application	WB
Primary Accession	<a href="#">Q8NB12</a>
Reactivity	Rat
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Calculated MW	56617

## Additional Information

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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~~1:100~1:500
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.

## Protein Information

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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.

## Background

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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.

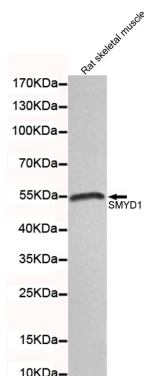
## References

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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).

## Images

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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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.