

SMYD2 Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1044a**Specification**

SMYD2 Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	Q9NRG4
Other Accession	Q7M6Z3 , Q8R5A0
Reactivity	Human, Mouse
Predicted	Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	49688
Antigen Region	120-152

SMYD2 Antibody (N-term) - Additional Information**Gene ID** 56950**Other Names**

N-lysine methyltransferase SMYD2, 211-, HSKM-B, Histone methyltransferase SMYD2, Lysine N-methyltransferase 3C, SET and MYND domain-containing protein 2, SMYD2, KMT3C

Target/Specificity

This SMYD2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 120-152 amino acids from the N-terminal region of human SMYD2.

Dilution

WB~~1:2000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

SMYD2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SMYD2 Antibody (N-term) - 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'.

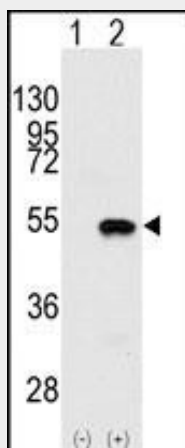
Cellular Location

Cytoplasm, cytosol. Nucleus

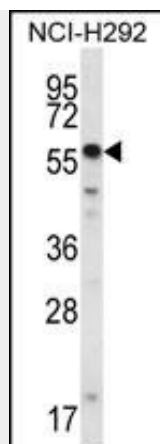
SMYD2 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

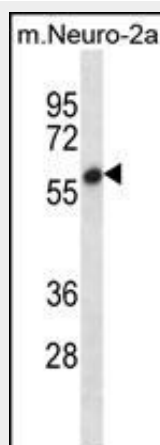
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SMYD2 Antibody (N-term) - Images

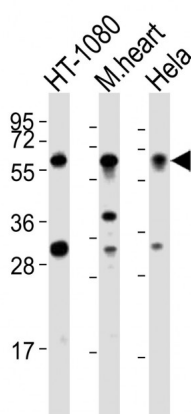
Western blot analysis of SYMD2 (arrow) using rabbit polyclonal SYMD2 Antibody (N-term) (Cat.#AP1044a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the SYMD2 gene (Lane 2) (Origene Technologies).



SMYD2 Antibody (N-term) (Cat.#AP1044a) western blot analysis in NCI-H292 cell line lysates (35ug/lane). This demonstrates the SMYD2 antibody detected the SMYD2 protein (arrow).



SMYD2 Antibody (N-term) (Cat.#AP1044a) western blot analysis in mouse Neuro-2a cell line lysates (35ug/lane). This demonstrates the SMYD2 antibody detected the SMYD2 protein (arrow).



All lanes : Anti-SMYD2 Antibody (N-term) at 1:2000 dilution Lane 1: HT-1080 whole cell lysates Lane 2: mouse heart lysates Lane 3: HeLa whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 50 kDa Blocking/Dilution buffer: 5% NFDm/TBST.

SMYD2 Antibody (N-term) - Background

SET domain-containing proteins, such as SMYD2, catalyze lysine methylation (Brown et al., 2006 [PubMed 16805913]).[supplied by OMIM].

SMYD2 Antibody (N-term) - References

Abu-Farha,M.,Mol. Cell Proteomics 7 (3), 560-572 (2008)
Ewing,R.M.,Mol. Syst. Biol. 3, 89 (2007)