

SMYD5 Antibody(C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19403b**Specification**

SMYD5 Antibody(C-term) - Product Information

Application	WB,E
Primary Accession	O6GMV2
Other Accession	O3TYX3 , NP_006053.2
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	47341
Antigen Region	343-371

SMYD5 Antibody(C-term) - Additional Information**Gene ID** 10322**Other Names**

SET and MYND domain-containing protein 5, 211-, Protein NN8-4AG, Retinoic acid-induced protein 15, SMYD5, RAI15

Target/Specificity

This SMYD5 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 343-371 amino acids from the C-terminal region of human SMYD5.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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

SMYD5 Antibody(C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SMYD5 Antibody(C-term) - Protein Information**Name** SMYD5 {ECO:0000303|PubMed:28951459, ECO:0000312|HGNC:HGNC:16258}

Function Protein-lysine N-trimethyltransferase that specifically catalyzes trimethylation of 'Lys-22' of the RPL40/eL40 subunit of the 60S ribosome, thereby promoting translation elongation and protein synthesis (PubMed:[39048817](#), PubMed:[39103523](#)). May also act as a histone methyltransferase in the context of histone octamers, but not on nucleosome substrates: trimethylates 'Lys-36' of histone H3 and 'Lys- 20' of histone H4 to form H3K36me3 and H4K20me3, respectively (By similarity). The histone methyltransferase activity, which is independent of its SET domain, is however unsure in vivo (PubMed:[39048817](#), PubMed:[39103523](#)). In association with the NCoR corepressor complex, involved in the repression of toll-like receptor 4 (TLR4)-target inflammatory genes in macrophages, possibly by catalyzing the formation of H4K20me3 at the gene promoters (By similarity). Plays an important role in embryonic stem (ES) cell self-renewal and differentiation (By similarity). Maintains genome stability of ES cells during differentiation through regulation of heterochromatin formation and repression of endogenous repetitive DNA elements by promoting H4K20me3 marks (PubMed:[28951459](#)). Acts as a regulator of the hypothermia response: its degradation in response to mild hypothermia relieves the formation of H3K36me3 at gene promoters, allowing expression of the neuroprotective gene SP1 (By similarity).

Cellular Location

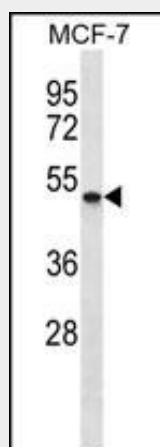
Cytoplasm

SMYD5 Antibody(C-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](#)

SMYD5 Antibody(C-term) - Images



SMYD5 Antibody (C-term)(Cat. #AP19403b) western blot analysis in MCF-7 cell line lysates (35ug/lane). This demonstrates the SMYD5 antibody detected the SMYD5 protein (arrow).

SMYD5 Antibody(C-term) - Background

SMYD5 contains 1 MYND-type zinc finger and 1 SET domain. The exact function of SMYD5 remains unknown.

SMYD5 Antibody(C-term) - References

Shago, M., et al. Mol. Cell. Biol. 16(8):4337-4348(1996)