



Rabbit Anti-SMYD2 antibody

SL6193R

Product Name:	SMYD2
Chinese Name:	组蛋白甲基转移酶SMYD2抗体
Alias:	HSKM B; HSKM-B; HSKMB; Histone methyltransferase SMYD2; HSKM-B; 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.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Pig,Cow,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	50kDa
Cellular localization:	The nucleuscytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human SMYD2:245-340/433
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Protein-lysine N-methyltransferase that methylates both histones and non-histone proteins. Specifically methylates histone H3 'Lys-4' (H3K4me) and dimethylates histone H3 'Lys-36' (H3K36me2). Has also methyltransferase activity toward non-histone

proteins such as p53/TP53 and RB1. Monomethylates 'Lys-370' of p53/TP53, leading to decreased DNA-binding activity and subsequent transcriptional regulation activity of p53/TP53. Monomethylates 'Lys-860' of RB1/RB.

Function:

Protein-lysine N-methyltransferase that methylates both histones and non-histone proteins. Specifically methylates histone H3 'Lys-4' (H3K4me) and dimethylates histone H3 'Lys-36' (H3K36me2). Has also methyltransferase activity toward non-histone proteins such as p53/TP53 and RB1. Monomethylates 'Lys-370' of p53/TP53, leading to decreased DNA-binding activity and subsequent transcriptional regulation activity of p53/TP53. Monomethylates 'Lys-860' of RB1/RB.

Subunit:

Interacts with RNA polymerase II and HELZ. Interacts with SIN3A and HDAC1 (By similarity). Interacts (via MYND-type zinc finger) with EPB41L3. Interacts (via SET domain) with p53/TP53. Interacts with RB1 and HSP90AA1.

Subcellular Location:

Cytoplasm, cytosol (By similarity). Nucleus (By similarity).

Similarity:

Contains 1 MYND-type zinc finger.
Contains 1 SET domain.

SWISS:

Q9NRG4

Gene ID:

56950

Database links:

[Entrez Gene: 56950](#)Human

[Entrez Gene: 226830](#)Mouse

[Entrez Gene: 100294706](#)Pig

[Entrez Gene: 289372](#)Rat

[Omim: 610663](#)Human

[SwissProt: Q0P585](#)Cow

[SwissProt: Q9NRG4](#)Human

[SwissProt: Q8R5A0](#)Mouse

[SwissProt: C3RZA1](#)Pig

[SwissProt: Q7M6Z3](#)Rat

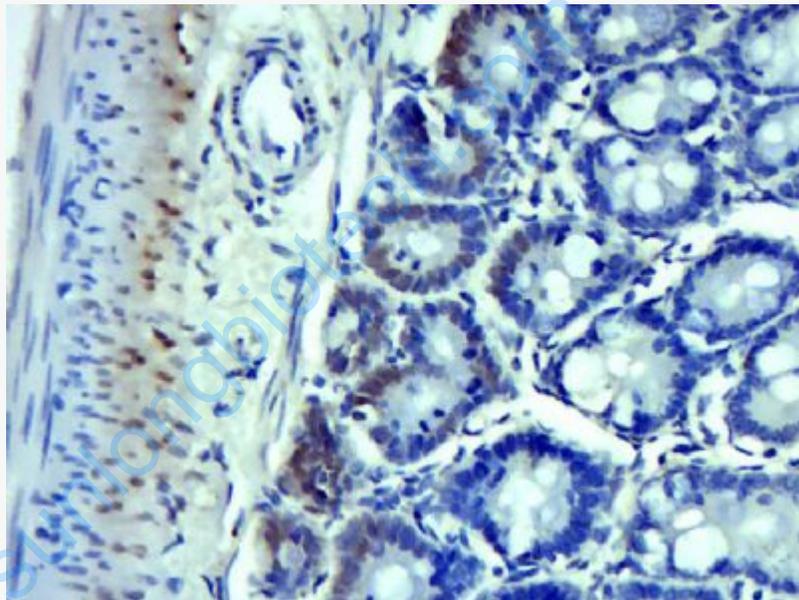
[Unigene: 66170](#)Human

[Unigene: 156895](#)Mouse

[Unigene: 7052](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Paraformaldehyde-fixed, paraffin embedded (Rat small intestine); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SMYD2) Polyclonal Antibody, Unconjugated (SL6193R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.