

Rabbit Anti-KMT3C/AP Conjugated antibody

SL16796R-AP

Product Name	Anti-KMT3C/AP
Chinese Name	碱性磷酸酶（AP）标记的组蛋白赖氨酸 N-甲基转移酶 3C 抗体
Alias	Histone methyltransferase SMYD2; HSKM B; HSKM-B; HSKMB; KMT3C; 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.
Product Type	Methylated anti
Research Area	transcriptional regulatory factor Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Human,Mouse,Rat(predicted:Pig,Cow,Horse,Sheep) WB=1:500-2000, IHC-P=1:50-200, IHC-F=1:50-200, IF=1:50-200
Applications	not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	50kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human KMT3C
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol. 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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Storage	
Product Detail	background: SET domain-containing proteins, such as SMYD2, catalyze lysine methylation (Brown et al., 2006 [PubMed 16805913]).[supplied by OMIM,

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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. Nucleus.

Similarity:

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

Database links:

[Entrez Gene: 56950](#) Human

[Entrez Gene: 615229](#) Cow

[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.