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[Marker Primary Antibody]

Rabbit Anti-KMT3C/Biotin Conjugated antibody

Catalog Number: SL16796R-Bio

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-KMT3C/Biotin
Immunogen:	KLH conjugated synthetic peptide derived from human KMT3C
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
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 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 Flow-Cyt=2ug/test not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Mouse,Rat(predicted:Pig,Cow,Horse,Sheep)
Background:	background: SET domain-containing proteins, such as SMYD2, catalyze lysine methylation (Brown et al., 2006 [PubMed 16805913]).[supplied by OMIM, Nov 2008] **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

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	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.