SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-SMYD2 antibody

Catalog Number: SL6193R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	SMYD2
Immunogen:	KLH conjugated synthetic peptide derived from human SMYD2: 245-340/433
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat(predicted:Human,Dog,Pig,Cow)
Predicted MW.:	50kDa
Subcellular Location:	The nucleus cytoplasmic
Background:	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-

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	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. **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

[VALIDATION IMAGES]

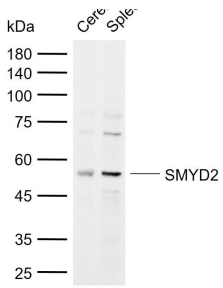


Figure 1. Sample: Lane 1: Rat Cerebrum tissue lysates Lane 2: Rat Spleen tissue lysates Primary: Anti-SMYD2 (SL6193R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 50 kDa Observed band size: 53 kDa

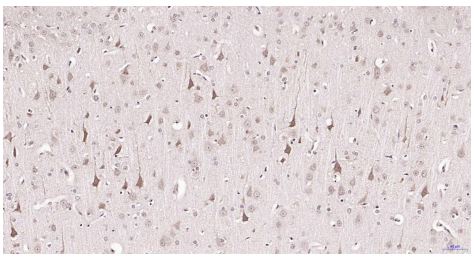


Figure 2. Paraformaldehyde-fixed, paraffin embedded Rat Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with SMYD2 Polyclonal Antibody, Unconjugated (SL6193R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining

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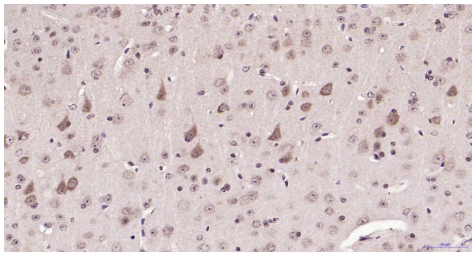


Figure 3. Paraformaldehyde-fixed, paraffin embedded Mouse Cerebrum; Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Antibody incubation with SMYD2 Polyclonal Antibody, Unconjugated (SL6193R) at 1:200 overnight at 4°C, followed by conjugation to the SP Kit (Rabbit, SP-0023) and DAB (C-0010) staining

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