



## Rabbit Anti-mSin3A antibody

SL4230R

<b>Product Name:</b>	mSin3A
<b>Chinese Name:</b>	同源转录调节蛋白Sin3A抗体
<b>Alias:</b>	Histone deacetylase complex subunit Sin 3a; Histone deacetylase complex subunit Sin3a; Paired amphipathic helix protein Sin 3a; Paired amphipathic helix protein Sin3a; Sin 3a; SIN3 homolog A; SIN3 homolog A transcription regulator (yeast); SIN3 homolog A transcription regulator; Sin3a; SIN3A protein; Transcriptional co repressor Sin 3A; Transcriptional co repressor Sin3A; Transcriptional regulator SIN3A; SIN3A MOUSE.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Sheep,
<b>Applications:</b>	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.
<b>Molecular weight:</b>	145kDa
<b>Cellular localization:</b>	The nucleus
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from mouse Sin3A:551-650/1274
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	Mammalian Sin 3 (mSin 3) is a protein closely related to the yeast SIN3 repressor protein involved in the transcriptional repression of many genes. There are two

mammalian isoforms, mSin 3A and mSin 3B. Containing 4 paired amphipathic helix domains (PAH domains), mSin 3A and mSin 3B have been shown to directly interact with several other transcriptional repressor proteins including HDAC 1, HDAC 2, RbAp 46, the methyl CpG binding protein MeCP 2, the Mad/Max heterodimer, and the corepressors silencing mediator of retinoic acid & thyroid hormone receptor (SMRT) and nuclear receptor corepressor (N-CoR).

**Function:**

Acts as a transcriptional repressor. Corepressor for REST. Interacts with MXI1 to repress MYC responsive genes and antagonize MYC oncogenic activities. Also interacts with MXD1-MAX heterodimers to repress transcription by tethering SIN3A to DNA. Acts cooperatively with OGT to repress transcription in parallel with histone deacetylation.

**Subunit:**

Interacts with ARID4B, BRMS1L, HCFC1, HDAC1, HDAC2, MXI1, SAP30L, SAP130, SFPQ and TOPORS. Interacts with OGT (via TPRs 1-6); the interaction mediates transcriptional repression in parallel with histone deacetylase (By similarity). Interacts with BAZ2A, MXD3, MXD4, MBD2, DACH1, NCOR1, NR4A2, REST, RLIM, SAP30, SETDB1, SMYD2, and SUDS3. Interacts with PHF12 in a complex composed of HDAC1, PHF12 and SAP30. Interacts with TET1; the interaction recruits SIN3A to gene promoters.

**Subcellular Location:**

Nucleus. Nucleus, nucleolus. Note=Recruited to the nucleolus by SAP30L (By similarity).

**Tissue Specificity:**

Widely expressed. Highest levels in testis, lung and thymus.

**Post-translational modifications:**

SUMO1 sumoylated by TOPORS. Probably desumoylated by SENP2 (By similarity).

**Similarity:**

Contains 3 PAH (paired amphipathic helix) domains.

**SWISS:**

Q60520

**Gene ID:**

20466

**Database links:**

[Entrez Gene: 25942](#)Human

[Entrez Gene: 20466](#)Mouse

[Entrez Gene: 363067](#)Rat

[Oimim: 607776](#)Human

[SwissProt: Q96ST3](#)Human

[SwissProt: Q60520](#)Mouse

[Unigene: 513039](#)Human

[Unigene: 15755](#)Mouse

[Unigene: 63749](#)Rat

**Important Note:**

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

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