SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

Rabbit Anti-phospho-Dnmt3a (Ser390 + Ser393)antibody

Catalog Number: SL14399R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	phospho-Dnmt3a (Ser390 + Ser393)
Immunogen:	KLH conjugated Synthesised phosphopeptide derived from human Dnmt3a around the phosphorylation site of Ser390 + Ser393: HD(p-S)DE(p-S)DT
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:	Human
Predicted MW.:	102kDa
Subcellular Location:	The nucleus cytoplasmic
Background:	CpG methylation is an epigenetic modification that is important for embryonic development, imprinting, and X-chromosome inactivation. Studies in mice have demonstrated that DNA methylation is required for mammalian development. This gene encodes a DNA methyltransferase that is thought to function in de novo methylation, rather than maintenance methylation. The protein localizes to the cytoplasm and nucleus and its expression is developmentally regulated. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008] **Function:** Required for genome wide de novo methylation and is essential for the establishment of DNA methylation patterns during development. DNA methylation is coordinated with methylation of histones. It modifies DNA in a

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	non-processive manner and also methylates non-CpG sites. May preferentially methylate DNA linker between 2 nucleosomal cores and is inhibited by histone H1. Plays a role in paternal and maternal imprinting. Required for methylation of most imprinted loci in germ cells. Acts as a transcriptional corepressor for ZNF238. Can actively repress transcription through the recruitment of HDAC activity. **Subcellular Location:** Nucleus. Cytoplasm. Accumulates in the major satellite repeats at pericentric heterochromatin. **Tissue Specificity:** Highly expressed in fetal tissues, skeletal muscle, heart, peripheral blood mononuclear cells, kidney, and at lower levels in placenta, brain, liver, colon, spleen, small intestine and lung. **Post-translational modifications:** Sumoylated; sumoylation disrupts the ability to interact with histone deacetylases (HDAC1 and HDAC2) and repress transcription. **Similarity:** Belongs to the C5-methyltransferase family. Contains 1 ADD domain. Contains 1 GATA-type zinc finger. Contains 1 PHD-type zinc finger. Contains 1 PWWP domain. **Database links:** **Entrez Gene:** 1788 Human **Entrez Gene:** 359716 Cow **Entrez Gene:** 482996 Dog **Entrez Gene:** 444984 Rat Omim: 602769 Human **SwissProt:** Q9Y6K1 Human **SwissProt:** Q1LZ53 Rat **Unigene:** 515840 Human **Unigene:** 92659 Rat

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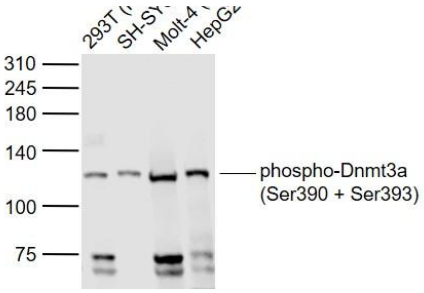
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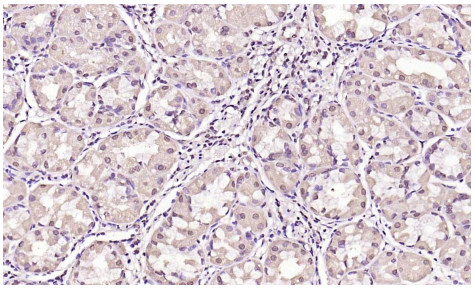
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[VALIDATION IMAGES]





Sample:
Lane 1: 293T (Human) Cell Lysate at 30 ug
Lane 2: SH-SY5Y (Human) Cell Lysate at 30 ug
Lane 3: Molt-4 (Human) Cell Lysate at 30 ug
Lane 4: HepG2 (Human) Cell Lysate at 30 ug
Primary: Anti-phospho-Dnmt3a (Ser390 + Ser393) (SL14399R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 120 kD
Observed band size: 120 kD

Paraformaldehyde-fixed, paraffin embedded (human gastric); 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 (phospho-Dnmt3a (Ser390 + Ser393)) Polyclonal Antibody, Unconjugated (SL14399R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

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