SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-CTDSP1 antibody

Catalog Number: SL14098R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	CTDSP1
Immunogen:	KLH conjugated synthetic peptide derived from human CTDSP1: 161-261/261
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:	IHC-P=1:100-500 IHC-F=1:100-500 ICC/IF=1:100-500 IF=1:100-500 ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted: Human, Mouse, Rat, Dog, Cow, Horse, Sheep)
Predicted MW.:	29kDa
Subcellular Location:	The nucleus
Background:	This gene encodes a member of the small C-terminal domain phosphatase (SCP) family of nuclear phosphatases. These proteins play a role in transcriptional regulation through specific dephosphorylation of phosphoserine 5 within tandem heptapeptide repeats of the C-terminal domain of RNA polymerase II. The encoded protein plays a role in neuronal gene silencing in non-neuronal cells, and may also inhibit osteoblast differentiation. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Oct 2011] **Function:** Preferentially catalyzes the dephosphorylation of 'Ser-5' within the tandem 7 residues repeats in the C-terminal domain (CTD) of the largest RNA polymerase II subunit POLR2A. Negatively regulates RNA polymerase II

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	transcription, possibly by controlling the transition from initiation/capping to processive transcript elongation. Recruited by REST to neuronal genes that contain RE-1 elements, leading to neuronal gene silencing in non-neuronal cells. **Subcellular Location:** Nucleus. Colocalizes with RNA polymerase II. **Tissue Specificity:** Expression is restricted to non-neuronal tissues. Highest expression in skeletal muscle, spleen, lung and placenta. **Similarity:** Contains 1 FCP1 homology domain. **Database links:** **Entrez Gene:** 58190 Human **Entrez Gene:** 227292 Mouse Omim: 605323 Human **SwissProt:** Q9GZU7 Human **SwissProt:** P58466 Mouse **Unigene:** 444468 Human **Unigene:** 165042 Mouse

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