

**CTDSP1 Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF2570a

**Specification**

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**CTDSP1 Antibody (internal region) - Product Information**

Application	E
Primary Accession	<a href="#">O9GZU7</a>
Other Accession	<a href="#">NP_067021.1</a> , <a href="#">NP_872580.1</a> , <a href="#">58190</a> , <a href="#">227292</a> (mouse), <a href="#">363249</a> (rat)
Predicted Host	Human, Mouse, Rat, Dog
Clonality	Goat
Concentration	Polyclonal
Isotype	0.5 mg/ml
Calculated MW	IgG
	29203

**CTDSP1 Antibody (internal region) - Additional Information**

**Gene ID** 58190

**Other Names**

Carboxy-terminal domain RNA polymerase II polypeptide A small phosphatase 1, 3.1.3.16, Nuclear LIM interactor-interacting factor 3, NLI-IF, NLI-interacting factor 3, Small C-terminal domain phosphatase 1, SCP1, Small CTD phosphatase 1, CTDSP1, NIF3, NLIIF, SCP1

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

CTDSP1 Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**CTDSP1 Antibody (internal region) - Protein Information**

**Name** CTDSP1

**Synonyms** NIF3, NLIIF, SCP1

**Function**

Preferentially catalyzes the dephosphorylation of 'Ser-5' within the tandem 7 residue repeats in the C-terminal domain (CTD) of the largest RNA polymerase II subunit POLR2A. Negatively regulates RNA polymerase II 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.

**Cellular Location**

Nucleus. Note=Colocalizes with RNA polymerase II

**Tissue Location**

Expression is restricted to non-neuronal tissues. Highest expression in skeletal muscle, spleen, lung and placenta

**CTDSP1 Antibody (internal region) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**CTDSP1 Antibody (internal region) - Images****CTDSP1 Antibody (internal region) - Background**

This antibody is expected to recognise both reported isoforms (NP\_067021.1 and NP\_872580.1).

**CTDSP1 Antibody (internal region) - References**

Determinants for dephosphorylation of the RNA polymerase II C-terminal domain by Scp1. Zhang Y, Kim Y, Genoud N, Gao J, Kelly JW, Pfaff SL, Gill GN, Dixon JE, Noel JP. Mol Cell. 2006 Dec 8;24(5):759-70. PMID: 17157258 [PubMed - indexed for MEDLINE]