

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

CTDSP1 Antibody (internal region) - Product Information

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