

CTDSP1 Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF2446a**Specification**

CTDSP1 Antibody (internal region) - Product Information

Application	WB, IHC, E
Primary Accession	O9GZU7
Other Accession	NP_067021.1 , NP_872580.1 , 58190
Reactivity	Human, Mouse
Predicted	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

Dilution

WB~~1:1000
IHC~~1:100~500
E~~N/A

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

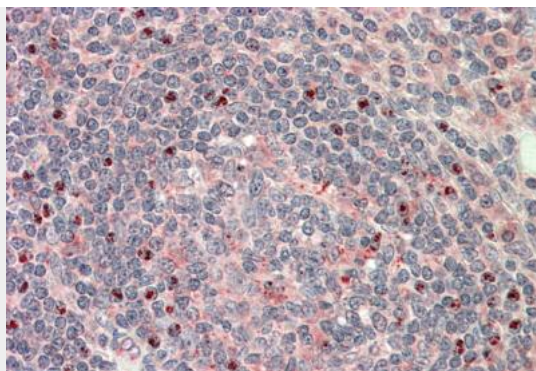
CTDSP1 Antibody (internal region) - Protocols

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

AF2446a (0.1 µg/ml) staining of Mouse Testis lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



AF2446a (5 µg/ml) staining of paraffin embedded Human Tonsil. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

CTDSP1 Antibody (internal region) - Background

This antibody is expected to recognise both reported isoforms (NP_067021 and NP_872580)

CTDSP1 Antibody (internal region) - References

Small CTD phosphatases function in silencing neuronal gene expression. Yeo M, Lee SK, Lee B, Ruiz EC, Pfaff SL, Gill GN. Science. 2005 Jan 28;307(5709):596-600. PMID: 15681389