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# CTDSP1 Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AW5411

## Product Information

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|---|---|
| **Application** | WB |
| **Primary Accession** | Q9GZU7 |
| **Other Accession** | P58466 |
| **Reactivity** | Human, Mouse |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Calculated MW** | 29203 |
| **Isotype** | Rabbit IgG |
| **Antigen Source** | HUMAN |

## Additional Information

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| **Gene ID** | 58190 |
| **Antigen Region** | 96-130 |
| **Other Names** | Carboxy-terminal domain RNA polymerase II polypeptide A small phosphatase 1, 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 |
| **Target/Specificity** | This CTDSP1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 96-130 amino acids from the Central region of human CTDSP1. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | CTDSP1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | CTDSP1 |

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| **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 |

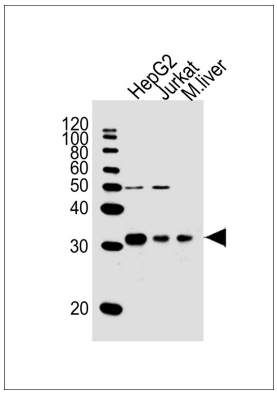
## Background

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 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.

## References


Marquet S.,et al.Mamm. Genome 11:755-762(2000).
Yeo M.,et al.J. Biol. Chem. 278:26078-26085(2003).
Li W.B.,et al.Submitted (APR-2003) to the EMBL/GenBank/DDBJ databases.
Hillier L.W.,et al.Nature 434:724-731(2005).
Yeo M.,et al.Science 307:596-600(2005).


## Images




All lanes : Anti-CTDSP1 Antibody (Center) at 1:1000 dilution Lane 1: HepG2 whole cell lysates Lane 2: Jurkat whole cell lysates Lane 3: mouse liver lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L),Peroxidase conjugated at 1/10000 dilution Predicted band size : 29 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

## Citations

- Deubiquitinase USP29 promotes gastric cancer cell migration by cooperating with phosphatase SCP1 to stabilize Snail protein