10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# Goat anti-CTDSP1, Biotinylated Antibody

Peptide-affinity purified goat antibody
Catalog # AF4447a

## Product Information

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| **Application** | WB, IHC, Pep-ELISA |
| **Primary Accession** | Q9GZU7 |
| **Other Accession** | NP_067021.1, NP_872580.1, NP_001193807.1 |
| **Reactivity** | Human, Mouse, Rat, Dog, Bovine |
| **Host** | Goat |
| **Clonality** | Polyclonal |
| **Clone Names** | CTDSP1 |
| **Calculated MW** | 29203 |

## Additional Information

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| **Gene ID** | 58190 |
| **Other Names** | CTDSP1; CTD small phosphatase 1; NIF3; NLI-IF; NLIIF; SCP1; CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1; NLI-interacting factor 3; nuclear LIM interactor-interacting factor 3; small C-terminal domain phosphatase 1 |
| **Dilution** | WB~~1:1000 IHC~~1:100~500 Pep-ELISA~~N/A |
| **Format** | Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing. |
| **Immunogen** | This antibody is expected to recognize all three reported isoforms (NP_067021.1; NP_872580.1; NP_001193807.1). |
| **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** | Goat anti-CTDSP1, Biotinylated Antibody is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **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 |

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| | 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 |

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.