

## Mouse CTDSP1 Monoclonal Antibody | anti-CTDSP1 antibody

CTDSP1 antibody

|                               |                      |                                                                                           |
|-------------------------------|----------------------|-------------------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA106237</b> | HOST<br><b>Mouse</b> | APPLICATIONS<br><b>Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay</b> |
|-------------------------------|----------------------|-------------------------------------------------------------------------------------------|

### PRODUCT SYNONYMS

CTDSP1; Monoclonal Antibody; CTDSP1 antibody; Monoclonal CTDSP1; Anti-CTDSP1; Carboxy-terminal domain; RNA polymerase II protein; polypeptide A phosphatase 1; NLIIF; SCP1; NIF3; CTDSP 1; CTDSP-1; anti-CTDSP1 antibody

### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Clonality                                        | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Isotype                                          | IgG1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Clone Number                                     | 1A10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Purity/Purification                              | CTDSP1 antibody was purified by affinity chromatography.                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Form/Format                                      | Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Concentration                                    | 500 ug-1 mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Sequence Length                                  | 261                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Applicable Applications for anti-CTDSP1 antibody | WB (Western Blot), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Biological Significance                          | Carboxy-terminal domain, RNA polymerase II, polypeptide A phosphatase 1, also known as CTDSP1, is a class 2C phosphatase with activity dependent on the conserved DxD motif. CTDSP1 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. Also it negatively regulates RNA polymerase II transcription, possibly by controlling the transition from initiation/capping to processive transcript elongation. |
| Cross-Reactivity                                 | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Immunogen                                        | CTDSP1 antibody was raised in mouse using a full length recombinant protein of human CTDSP1 (NP_067021) produced in E Coli as the immunogen.                                                                                                                                                                                                                                                                                                                                                                                         |
| Preparation and Storage                          | Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                              |

### IMAGES



#### IF (Immunofluorescence)

Immunofluorescent staining of COS7 cells transiently transfected with recombinant CTDSP1 protein using CTDSP1 antibody



#### WB (Western Blot)

Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant CTDSP1 protein (Right) or empty vector (Left) detected with CTDSP1 antibody

ADDITIONAL INFORMATION

|                                                      |                                  |
|------------------------------------------------------|----------------------------------|
| Related Product Information for anti-CTDSP1 antibody | Mouse monoclonal CTDSP1 antibody |
| Product Categories/Family for anti-CTDSP1 antibody   | Signal Transduction              |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                       |
|----------------------------------|---------------------------------------------------------------------------------------|
| NCBI GI #                        | 10864009                                                                              |
| NCBI GeneID                      | 58190                                                                                 |
| NCBI Accession #                 | NP_067021                                                                             |
| NCBI GenBank Nucleotide #        | NM_021198.2                                                                           |
| UniProt Accession #              | Q9GZU7; Q7Z5Q3; Q7Z5Q4; C9IYG0                                                        |
| Molecular Weight                 | 29,128 Da                                                                             |
| NCBI Official Full Name          | carboxy-terminal domain RNA polymerase II polypeptide A small phosphatase 1 isoform 1 |
| NCBI Official Synonym Full Names | CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1   |
| NCBI Official Symbol             | CTDSP1                                                                                |
| NCBI Official Synonym Symbols    | NIF3; SCP1; NLIIF; NLI-IF                                                             |
| NCBI Protein Information         | carboxy-terminal domain RNA polymerase II polypeptide A small phosphatase 1           |
| UniProt Protein Name             | Carboxy-terminal domain RNA polymerase II polypeptide A small phosphatase 1           |
| UniProt Gene Name                | CTDSP1                                                                                |
| UniProt Synonym Gene Names       | NIF3; NLIIF; SCP1; NLI-IF; NLI-interacting factor 3; SCP1; Small CTD phosphatase 1    |
| UniProt Entry Name               | CTDS1_HUMAN                                                                           |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/monoclonal/ctdsp1-antibody-clone-1a10-western-blot-immunofluorescence-flow-cytometry-elisa/106237>