

**CTDSPL Antibody (internal region)**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF2758a****Specification**

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**CTDSPL Antibody (internal region) - Product Information**

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|-------------------|--------------------------------------------------------------------------------------|
| Application       | E                                                                                    |
| Primary Accession | <a href="#">O15194</a>                                                               |
| Other Accession   | <a href="#">NP_001008393.1</a> , <a href="#">NP_005799.2</a> , <a href="#">10217</a> |
| Predicted         | Human, Dog                                                                           |
| Host              | Goat                                                                                 |
| Clonality         | Polyclonal                                                                           |
| Concentration     | 0.5 mg/ml                                                                            |
| Isotype           | IgG                                                                                  |
| Calculated MW     | 31129                                                                                |

**CTDSPL Antibody (internal region) - Additional Information****Gene ID** 10217**Other Names**

CTD small phosphatase-like protein, CTDSP-like, 3.1.3.16, Carboxy-terminal domain RNA polymerase II polypeptide A small phosphatase 3, NIF-like protein, Nuclear LIM interactor-interacting factor 1, NLI-interacting factor 1, Protein YA22, hYA22, RBSP3, Small C-terminal domain phosphatase 3, SCP3, Small CTD phosphatase 3, CTDSPL, C3orf8, NIF1, NIFL, SCP3, YA22

**Dilution**

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**

CTDSPL Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**CTDSPL Antibody (internal region) - Protein Information****Name** CTDSPL**Synonyms** C3orf8, NIF1, NIFL, SCP3, YA22

**Function**

Recruited by REST to neuronal genes that contain RE-1 elements, leading to neuronal gene silencing in non-neuronal cells (By similarity). 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.

**Cellular Location**

Nucleus.

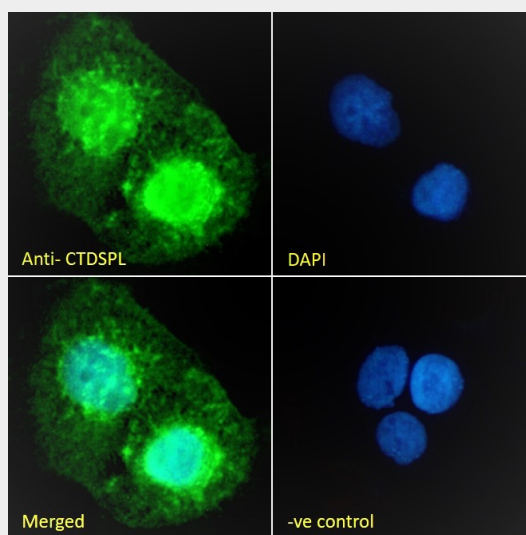
**Tissue Location**

Expression is restricted to non-neuronal tissues.

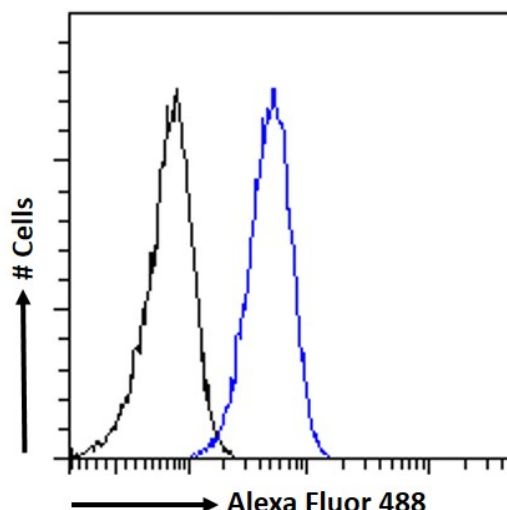
**CTDSPL Antibody (internal region) - Protocols**

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](#)

**CTDSPL Antibody (internal region) - Images**

EB08525 Immunofluorescence analysis of paraformaldehyde fixed A431 cells, permeabilized with 0.15% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml), showing nuclear and vesicle staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



EB08525 Flow cytometric analysis of paraformaldehyde fixed A431 cells (blue line), permeabilized with 0.5% Triton. Primary incubation 1hr (10ug/ml) followed by Alexa Fluor 488 secondary antibody (1ug/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.

#### **CTDSPL Antibody (internal region) - Background**

This antibody is expected to recognise both isoforms (NP\_001008393.1; NP\_005799.2).

#### **CTDSPL Antibody (internal region) - References**

RBSP3 (HYA22) is a tumor suppressor gene implicated in major epithelial malignancies. Kashuba VI, Li J, Wang F, Senchenko VN, Protopopov A, Malyukova A, Kutsenko AS, Kadyrova E, Zabarovska VI, Muravenko OV, Zelenin AV, Kisselev LL, Kuzmin I, Minna JD, Winberg G, Ernberg I, Braga E, Lerman MI, Klein G, Zabarovsky ER. Proc Natl Acad Sci U S A. 2004 Apr 6;101(14):4906-11. Epub 2004 Mar 29. PMID: 15051889