

# CTDSP2 Rabbit pAb

Catalog # AP97621

## Product Information

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| <b>Application</b>         | IHC-P, IHC-F, IF                                                                                                          |
| <b>Primary Accession</b>   | <a href="#">Q14595</a>                                                                                                    |
| <b>Other Accession</b>     | <a href="#">Q14595</a>                                                                                                    |
| <b>Reactivity</b>          | Rat, Human                                                                                                                |
| <b>Predicted</b>           | Pig, Mouse, Rabbit, Horse, Sheep                                                                                          |
| <b>Host</b>                | Rabbit                                                                                                                    |
| <b>Clonality</b>           | Polyclonal                                                                                                                |
| <b>Calculated MW</b>       | 30664                                                                                                                     |
| <b>Physical State</b>      | Liquid                                                                                                                    |
| <b>Immunogen</b>           | KLH conjugated synthetic peptide derived from human CTDSP2                                                                |
| <b>Epitope Specificity</b> | 25-150/271                                                                                                                |
| <b>Isotype</b>             | IgG                                                                                                                       |
| <b>Purity</b>              | affinity purified by Protein A                                                                                            |
| <b>Buffer</b>              | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.                                                         |
| <b>SIMILARITY</b>          | Contains 1 FCP1 homology domain.                                                                                          |
| <b>SUBUNIT</b>             | Monomer (By similarity). Interacts with REST.                                                                             |
| <b>Important Note</b>      | This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. |

## Additional Information

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| <b>Gene ID</b>     | 10106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Other Names</b> | OS4; PSR2; SCP2; D10Ertd73e; OS-4; CTDS2_HUMAN; CTDSP2; Nuclear LIM interactor-interacting factor 2 (NLI-interacting factor 2); Protein OS-4; Small C-terminal domain phosphatase 2; Small CTD phosphatase 2 (SCP2); 3.1.3.16; NIF2; CTDS2_MOUSE; CTD small phosphatase 2; CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 2; conserved gene amplified in osteosarcoma; nuclear LIM interactor-interacting factor 2; NLI-interacting factor 2; small CTD phosphatase 2 |
| <b>Dilution</b>    | IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Storage</b>     | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.                                                                                                                                                                                                                                                                                                          |

## Protein Information

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| <b>Name</b>     | CTDSP2          |
| <b>Synonyms</b> | NIF2, OS4, SCP2 |

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| <b>Function</b>          | 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. May contribute to the development of sarcomas. |
| <b>Cellular Location</b> | Nucleus.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Tissue Location</b>   | Expression is restricted to non-neuronal tissues. Highest expression in pancreas and lowest in liver                                                                                                                                                                                                                                                                                                                                                                                                             |

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