

**CTDSP1 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP16726a****Specification**

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**CTDSP1 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [O9GZU7](#)**CTDSP1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 58190**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

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**CTDSP1 Antibody (N-term) Blocking Peptide - Protein Information****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 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

## **CTDSP1 Antibody (N-term) Blocking Peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

## **CTDSP1 Antibody (N-term) Blocking Peptide - Images**

## **CTDSP1 Antibody (N-term) Blocking Peptide - Background**

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## **CTDSP1 Antibody (N-term) Blocking Peptide - References**

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Zhang, M., et al. Protein Sci. 19(5):974-986(2010)Ji, H., et al. Plant J. 61(1):96-106(2010)Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009)Sapkota, G., et al. J. Biol. Chem. 281(52):40412-40419(2006)