

CTDSP2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP14394a**Specification****CTDSP2 Antibody (N-term) Blocking Peptide -
Product Information**Primary Accession [O14595](#)**CTDSP2 Antibody (N-term) Blocking Peptide -
Additional Information****Gene ID** 10106**Other Names**

Carboxy-terminal domain RNA polymerase II polypeptide A small phosphatase 2, Nuclear LIM interactor-interacting factor 2, NLI-interacting factor 2, Protein OS-4, Small C-terminal domain phosphatase 2, Small CTD phosphatase 2, SCP2, CTDSP2, NIF2, OS4, SCP2

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.

**CTDSP2 Antibody (N-term) Blocking Peptide -
Protein Information****Name** CTDSP2**Synonyms** NIF2, OS4, SCP2**Function**

Preferentially catalyzes the dephosphorylation of 'Ser-5' within the tandem 7 residue repeats in the C-terminal

**CTDSP2 Antibody (N-term) Blocking
Peptide - Background**

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. 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.

**CTDSP2 Antibody (N-term) Blocking
Peptide - References**

Lamesch, P., et al. Genomics 89(3):307-315(2007) Sapkota, G., et al. J. Biol. Chem. 281(52):40412-40419(2006) Thompson, J., et al. EMBO J. 25(12):2757-2767(2006) Yeo, M., et al. J. Biol. Chem. 278(28):26078-26085(2003) Su, Y.A., et al. Oncogene 15(11):1289-1294(1997)

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.

Cellular Location

Nucleus.

Tissue Location

Expression is restricted to non-neuronal tissues. Highest expression in pancreas and lowest in liver

CTDSP2 Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)