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Anti-CTDSP1 Antibody

Catalog # AP51124

Product Information

Application	WB, IHC
Primary Accession	Q9GZU7
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	29203

Additional Information

Gene ID	58190
Other Names	NIF3; NLIIF; SCP1; 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
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human CTDSP1. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

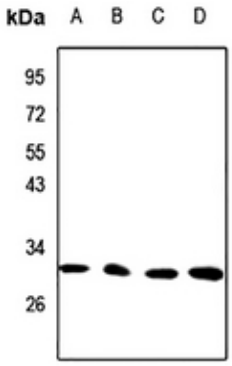
Protein Information

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

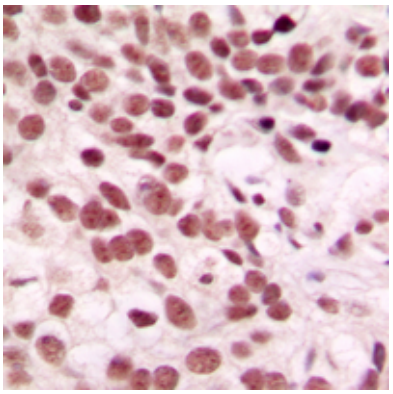
References

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Yeo M.,et al.J. Biol. Chem. 278:26078-26085(2003).
Li W.B.,et al.Submitted (APR-2003) to the EMBL/GenBank/DDBJ databases.
Hillier L.W.,et al.Nature 434:724-731(2005).
Yeo M.,et al.Science 307:596-600(2005).

Images



Western blot analysis of CTDSP1 expression in 3T3 (A), PMVEC (B), H1792 (C), A549 (D) whole cell lysates. (Predicted band size: 29 kD; Observed band size: 30 kD)



Immunohistochemical analysis of CTDSP1 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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