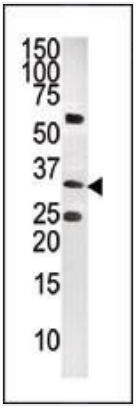
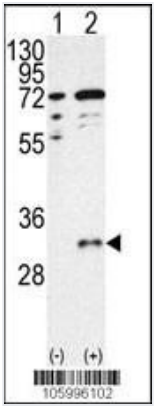
CTDSP1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

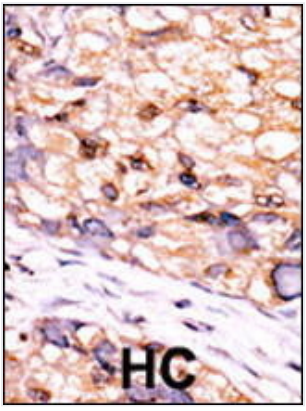
Product Name	CTDSP1, Polyclonal Antibody
Full Product Name	CTDSP1, CT (V250) (Carboxy-terminal Domain RNA Polymerase II Polypeptide A Small Phosphatase 1, Nuclear LIM Interactor-interacting Factor 3, NLI-interacting Factor 3, NLI-IF, NIF3, NLIIF) (MaxLight 405)
Product Gene Name	anti-CTDSP1 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Ammonium Sulfate Precipitation.
Specificity	Recognizes human CTDSP1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	29,128 Da
OMIM	605323
3D Structure	ModBase 3D Structure for Q9GZU7
Immunogen	Synthetic peptide selected from the C-terminal region of human CTDSP1-V250 protein (KLH).
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-CTDSP1 antibody	Antibodies; Enzymes; Phosphatase
Applications Tested/Suitable for anti-CTDSP1 antibody	Immunohistochemistry (IHC), FLISA, Western Blot (WB)
Application Notes for anti-CTDSP1 antibody	IHC: 1:50-1:100 FLISA: 1:1,000 WB: 1:100-1:500 Applications are based on unconjugated antibody.
Related Product Information for anti-CTDSP1 antibody	MBS6470782 is an antibody targeting CTDSP1. Also known as CTDSP1, CT (V250) (Carboxy-terminal Domain RNA Polymerase II Polypeptide A Small Phosphatase 1, Nuclear LIM Interactor-interacting Factor 3, NLI-interacting Factor 3, NLI-IF, NIF3, NLIIF) (MaxLight 405). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-CTDSP1 antibody	1. Yeo, M., Lee, S.K., Lee, B., Ruiz, E.C., Pfaff, S.L. and Gill, G.N. Science 307(5709): 596-600 (2005). 2. Fernandes, A.O., Campagnoni, C.W., Kampf, K., Feng, J.M., Handley, V.W. J. Neurosci. Res. 75(4): 461-471 (2004). 3. Yeo, M., Lin, P.S., Dahmus, M.E. and Gill, G.N. J. Biol. Chem. 278(28): 26078-26085 (2003).
Other Notes	Small volumes of anti-CTDSP1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-CTDSP1 antibody
The anti-CTDSP1-V250 is used in Western blot to detect CTDSP1-V250 in CEM tissue lysate.



Western Blot (WB) of anti-CTDSP1 antibody
Western blot analysis of CTDSP1 (arrow) using CTDSP1-V250 Antibody (C-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the CTDSP1 gene (Lane 2) (Origene Technologies).



Immunohistochemistry (IHC) of anti-CTDSP1 antibody
Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CTDSP1. It may not necessarily be applicable to this product.

NCBI GI #	10864009
NCBI GeneID	58190
NCBI Accession #	NP_067021
UniProt Primary Accession #	Q9GZU7
UniProt Secondary Accession #	Q7Z5Q3; Q7Z5Q4; C9IYG0
UniProt Related Accession #	Q9GZU7
GenBank Nucleotide #	NM_021198.2
NCBI Official Full Name	carboxy-terminal domain RNA polymerase II polypeptide A small phosphatase 1 isoform 1
NCBI Official Synonym Full Names	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1
NCBI Official Symbol	CTDSP1
NCBI Official Synonym Symbols	NIF3; SCP1; NLIIF; NLI-IF
UniProt Protein Name	Carboxy-terminal domain RNA polymerase II polypeptide A small phosphatase 1
UniProt Synonym Protein Names	Nuclear LIM interactor-interacting factor 3; NLI-IF; NLI-interacting factor 3; Small C-terminal domain phosphatase 1

Protein Family	Carboxy-terminal domain RNA polymerase II polypeptide A small phosphatase
UniProt Gene Name	CTDSP1
UniProt Synonym Gene Names	NIF3; NLIIF; SCP1; NLI-IF; NLI-interacting factor 3; SCP1
UniProt Entry Name	CTDS1_HUMAN
NCBI Protein Information	carboxy-terminal domain RNA polymerase II polypeptide A small phosphatase 1
NCBI Summary for CTDSP1	This gene encodes a member of the small C-terminal domain phosphatase (SCP) family of nuclear phosphatases. These proteins play a role in transcriptional regulation through specific dephosphorylation of phosphoserine 5 within tandem heptapeptide repeats of the C-terminal domain of RNA polymerase II. The encoded protein plays a role in neuronal gene silencing in non-neuronal cells, and may also inhibit osteoblast differentiation. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Oct 2011]
UniProt Comments for CTDSP1	CTDSP1: 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. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.1.3.16; Protein phosphatase, Ser/Thr (non-receptor) Chromosomal Location of Human Ortholog: 2q35 Cellular Component: nucleus Molecular Function: protein binding; metal ion binding; CTD phosphatase activity Biological Process: regulation of transcription from RNA polymerase II promoter; negative regulation of neuron differentiation; negative regulation of protein amino acid phosphorylation; protein amino acid dephosphorylation
Research Articles on CTDSP1	**1.** hSCP1 may be an beta-O-linked N-acetylglucosamine modified protein in vivo.
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