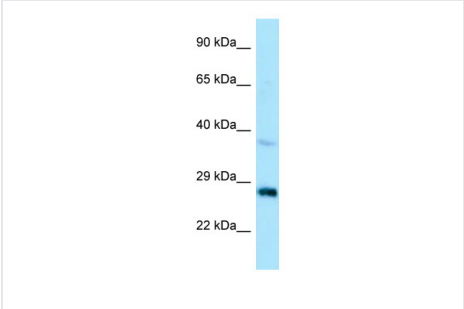
CTDSP1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CTDSP1, Polyclonal Antibody
Full Product Name	CTDSP1 Antibody - N-terminal region
Product Gene Name	anti-CTDSP1 antibody
Product Synonym Gene Name	NLIIF; SCP1; NIF3; NLI-IF
Immunogen Sequence	Synthetic peptide located within the following region: KQTPVQYLLP EAKAQDSDKI CVVIDLDETL VHSSFKPVNN ADFIIPVEID
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Cow, Dog, Guinea Pig, Human, Mouse, Rabbit, Rat
Form/Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Purity/Purification	Affinity Purified
Preparation and Storage	For short term use, store at 2-8 degree C up to 1 week. For long term storage, store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	CTDSP1 peptide (MBS3241540) is used for blocking the activity of CTDSP1 antibody (MBS3216640)
Molecular Weight	29kDa
OMIM	605323
3D Structure	ModBase 3D Structure for Q9GZU7
Homology	Cow: 100%; Dog: 93%; Guinea Pig: 100%; Human: 100%; Mouse: 100%; Rabbit: 100%; Rat: 100%
Immunogen	The immunogen is a synthetic peptide directed towards the N-terminal region of Human CTDSP1
Product Categories/Family for anti-CTDSP1 antibody	Polyclonal; Transcription Regulation; Developmental Biology
Applications Tested/Suitable for anti-CTDSP1 antibody	Western Blot (WB)
Related Product Information for anti-CTDSP1 antibody	This is a rabbit polyclonal antibody against CTDSP1. It was validated on Western Blot Target Description: 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.
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.
Searchable Terms for CTDSP1 purchase	MBS3216640 is an antibody targeting CTDSP1. Also known as CTDSP1 Antibody - N-terminal region. Reactive in Cow, Dog, Guinea Pig, Human, Mouse, Rabbit, Rat. Host: Rabbit.



Western Blot (WB) of anti-CTDSP1 antibody
WB Suggested Anti-CTDSP1 AntibodyTitration: 1.0 ug/mlPositive Control: HepG2 Whole CellCTDSP1 is supported by BioGPS gene expression data to be expressed in HepG2

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 Related Accession #	Q9GZU7
GenBank Nucleotide #	NM_021198
NCBI Official Full Name	carboxy-terminal domain RNA polymerase II polypeptide A small phosphatase 1 isoform 1
NCBI Official Synonym Full Names	CTD 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.** Our results provide a novel mechanistic insight into the activation of Myc by 27-HC via transcriptional repression of PP2A, SCP1 and FBW7 to increase Myc protein stability in breast cancer cells.
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