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CTDSP2 Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8460a

Specification

CTDSP2 Antibody (N-term) - Product Information

Application	**IHC-P, WB,E**
Primary Accession	O14595
Other Accession	Q53ZR2
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**30664**
Antigen Region	**12-42**

CTDSP2 Antibody (N-term) - 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

Target/Specificity
This CTDSP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 12-42 amino acids from the N-terminal region of human CTDSP2.

Dilution
IHC-P~~1:50~100
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
CTDSP2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

CTDSP2 Antibody (N-term) - Protein Information

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Name CTDSP2

Synonyms NIF2, OS4, SCP2

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. May contribute to the development of sarcomas.

Cellular Location
Nucleus.

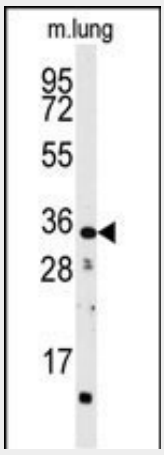
Tissue Location
Expression is restricted to non-neuronal tissues. Highest expression in pancreas and lowest in liver

CTDSP2 Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CTDSP2 Antibody (N-term) - Images



Western blot analysis of anti-CTDSP2 Antibody (N-term) (Cat.#AP8460a) in mouse lung tissue lysates (35ug/lane). CTDSP2(arrow) was detected using the purified Pab.

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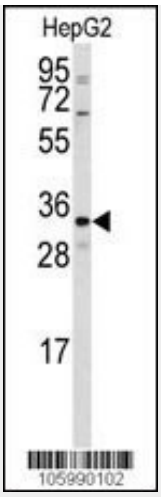
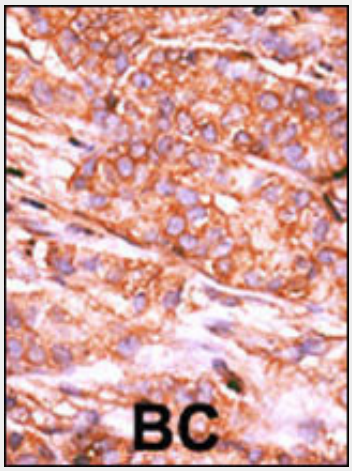
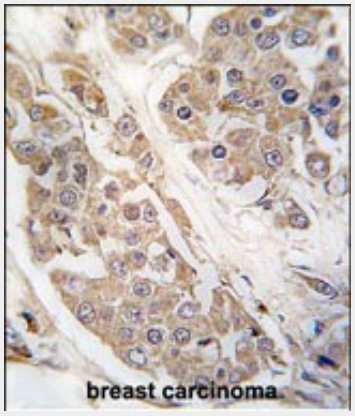


Western blot analysis of anti-CTDSP2 Antibody (N-term) (Cat.#AP8460a) in HepG2 cell line lysates (35ug/lane). hCTDSP2-S27(arrow) was detected using the purified Pab.



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



Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with CTDSP2 Antibody (N-term) (Cat.#AP8460a), 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.

CTDSP2 Antibody (N-term) - Background

CTDSP2 is one of several small CTD phosphatases (SCP). It has been proposed that SCP activity is an evolutionarily conserved transcriptional regulator that acts globally to silence neuronal genes. In addition, expression of phosphatase CTDSP2 mRNA isenhanced in several cancer cell lines with amplification of the CTDSP2 and CDK4 genes, and CTDSP2 coamplifies with CDK4 in some primary sarcomas. CTDSP2 may contribute to the development of a subset of sarcomas.

CTDSP2 Antibody (N-term) - References

Yeo, M., et al., J. Biol. Chem. 278(28):26078-26085 (2003).
Su, Y.A., et al., Oncogene 15(11):1289-1294 (1997).
Beutler, E., et al., Blood Cells Mol. Dis. 21(3):207-216 (1995).
Su, Y.A., et al., Proc. Natl. Acad. Sci. U.S.A. 91(19):9121-9125 (1994).
Su, Y.A., et al., Oncogene 15, 1290-1294 (1997) (): ().