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KD-Validated Anti-CTDSP2 Mouse Monoclonal Antibody

Mouse monoclonal antibody
Catalog # AGI2020

Specification

KD-Validated Anti-CTDSP2 Mouse Monoclonal Antibody - Product Information

Application	**WB, FC**
Primary Accession	O14595
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Mouse IgG1**
Calculated MW	**Predicted, 31 kDa, observed, 35 kDa KDa**
Gene Name	**CTDSP2**
Aliases	**CTDSP2; CTD Small Phosphatase 2; SCP2; OS4; Nuclear LIM Interactor-Interacting Factor 2; NLI-Interacting Factor 2; Small CTD Phosphatase 2; PSR2; CTD (Carboxy-Terminal Domain, RNA Polymerase II, Polypeptide A) Small Phosphatase 2; Carboxy-Terminal Domain RNA Polymerase II Polypeptide A Small Phosphatase 2; Conserved Gene Amplified In Osteosarcoma; Small C-Terminal Domain Phosphatase 2; Protein OS-4; EC 3.1.3.16; NIF**
Immunogen	**Recombinant protein of human CTDSP2**

KD-Validated Anti-CTDSP2 Mouse Monoclonal Antibody - Additional Information

Gene ID	**10106**

Other Names
Carboxy-terminal domain RNA polymerase II polypeptide A small phosphatase 2, 3.1.3.16, 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

KD-Validated Anti-CTDSP2 Mouse Monoclonal Antibody - 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 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.

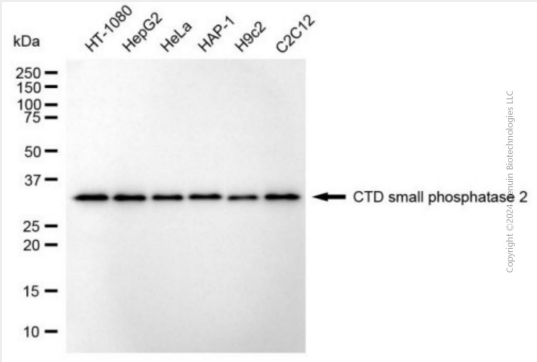
Tissue Location
Expression is restricted to non-neuronal tissues. Highest expression in pancreas and lowest in liver

KD-Validated Anti-CTDSP2 Mouse Monoclonal Antibody - Protocols

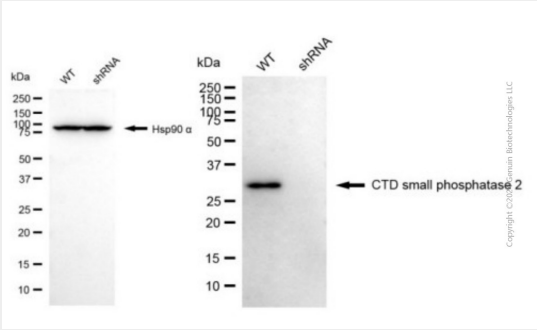
Provided below are standard protocols that you may find useful for product applications.

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

KD-Validated Anti-CTDSP2 Mouse Monoclonal Antibody - Images



Western blotting analysis using anti-CTD small phosphatase 2 antibody (Cat#AGI2020). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-CTD small phosphatase 2 antibody (Cat#AGI2020, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Western blotting analysis using anti-CTD small phosphatase 2 antibody (Cat#AGI2020). CTD small phosphatase 2 expression in wild type (WT) and CTD small phosphatase 2 (CTDSP2) shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-CTD small phosphatase 2 antibody (Cat#AGI2020, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.

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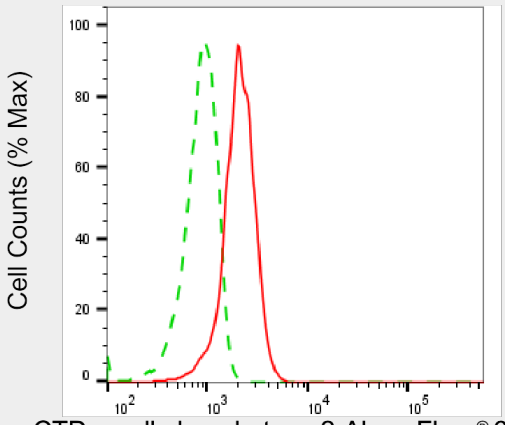

Flow cytometric analysis of CTD small phosphatase 2 expression in HepG2 cells using anti-CTD small phosphatase 2 antibody (Cat#AGI2020, 1:2,000). Green, isotype control; red, CTD small phosphatase 2.