

KD-Validated Anti-CTDSP2 Mouse Monoclonal Antibody

Mouse monoclonal antibody

Catalog # AGI2020

Product Information

Application	WB, FC
Primary Accession	O14595
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Names	24GB8045
Calculated MW	30664
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

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

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

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