

SSU72 (D3I2D) Rabbit mAb

✓ 100 µl
(10 western blots)

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New 05/13

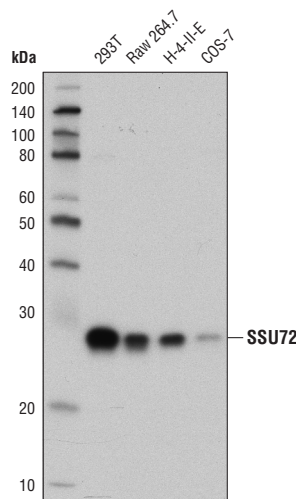
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Applications W, IP Endogenous	Species Cross-Reactivity* H, M, R, Mk, (Hm, C, B, Dg, Pg)	Molecular Wt. 27 kDa	Isotype Rabbit IgG**
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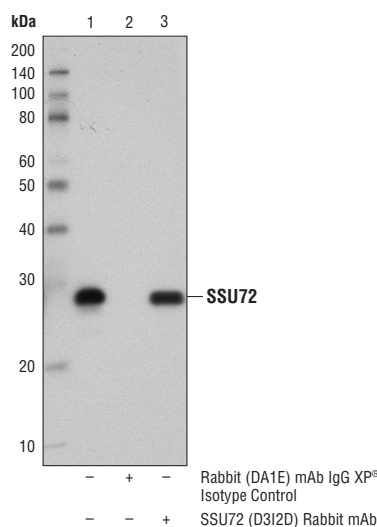
Background: SSU72 is a protein phosphatase originally identified through its interaction with TFIIB as a factor required for transcription and RNA processing (1,2). While SSU72 has been known as a phosphatase of the RNA polymerase II carboxy-terminal domain at Ser5 of the heptapeptide repeat, additional studies suggest a role for SSU72 as a phosphatase for Ser7 of the heptapeptide repeat as well (3-9). The activities of SSU72 are thought to play a critical role in coupling transcription with pre-mRNA 3' end processing (10-12). SSU72 is required for gene looping that connects the gene promoter with the terminator region, leading to proper initiation of transcription and enforcement of transcriptional directionality on promoters that may otherwise act as bidirectional promoters (13-14). In addition to a role in transcription, SSU72 acts as a cohesin binding protein that regulates cohesion between sister chromatid arms during mitosis or meiosis (15).

Specificity/Sensitivity: SSU72 (D3I2D) Rabbit mAb recognizes endogenous levels of total SSU72 protein.

Source/Purification: Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro93 of human SSU72 protein.



Western blot analysis of extracts from various cell lines using SSU72 (D3I2D) Rabbit mAb.



Immunoprecipitation of SSU72 from 293T cell extracts, using Rabbit (DA1E) mAb IgG XP® Isotype Control #3900 (lane 2) or SSU72 (D3I2D) Rabbit mAb (lane 3). Lane 1 is 10% input. Western blot analysis was performed using SSU72 (D3I2D) Rabbit mAb. Mouse Anti-rabbit IgG (Conformation Specific) (L27A9) mAb #3678 was used as a secondary antibody.

IMPORTANT: For western blots, incubate membrane with diluted antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween-20 at 4°C with gentle shaking, overnight.

Entrez-Gene ID #29101
Swiss-Prot Acc. #Q9NP77

Storage: Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

***Species cross-reactivity is determined by western blot.**

****Anti-rabbit secondary antibodies must be used to detect this antibody.**

Recommended Antibody Dilutions:

Western blotting 1:1000
Immunoprecipitation 1:50

For product specific protocols please see the web page for this product at www.cellsignaling.com.

Please visit www.cellsignaling.com for a complete listing of recommended complementary products.

Background References:

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