CRSP70 (h): 293T Lysate: sc-112474



The Power to Question

BACKGROUND

In mammalian cells, transcription is regulated in part by high molecular weight co-activating complexes that mediate signals between transcriptional activators and RNA polymerase. These complexes include CRSP (for cofactor required for Sp1 activation), which is required, in conjunction with TAFIIs, for transcriptional activation by Sp1. CRSP is ubiquitously expressed in various tissues and functions as a multimeric complex that consists of nine distinct subunits. Several members of the CRSP family share sequence similarity with multiple components of the yeast transcriptional mediator proteins including CRSP150, which is related to yeast Rgr1 and CRSP70, which is similar to the elongation factor TFIIS. CRSP77 and CRSP150 are also related to proteins within the putative murine mediator complex, while CRSP130 and CRSP34 are largely unrelated to either murine or yeast proteins. CRSP subunits also associate with larger multimeric co-activaor complexes including ARC/DRI, which binds directly to SREBP and nuclear hormone receptors to facilitate transcription, and with NAT, a polymerase II-interacting complex that represses activated transcription.

REFERENCES

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- Myers, L.C., et al. 1998. The Med proteins of yeast and their function through the RNA polymerase II carboxy-terminal domain. Genes Dev. 12: 45-54.
- Jiang, Y.W., et al. 1998. Mammalian mediator of transcriptional regulation and its possible role as an end-point of signal transduction pathways. Proc. Natl. Acad. Sci. USA 95: 8538-8543.
- 4. Ryu, S., et al. 1999. The transcriptional cofactor complex CRSP is required for activity of the enhancer-binding protein Sp1. Nature 397: 446-450.
- 5. Ryu, S., et al. 1999. Purification of transcription cofactor complex CRSP. Proc. Natl. Acad. Sci. USA 96: 7137-7142.
- 6. Andel, F., III, et al. 1999. Three-dimensional structure of the human TFIID-IIA-IIB complex. Science 286: 2153-2156.
- Naar, A.M., et al. 1999. Composite co-activator ARC mediates chromatindirected transcriptional activation. Nature 398: 828-832.

CHROMOSOMAL LOCATION

Genetic locus: MED26 (human) mapping to 19p13.11.

PRODUCT

CRSP70 (h): 293T Lysate represents a lysate of human CRSP70 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

CRSP70 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive CRSP70 antibodies. Recommended use: 10-20 µl per lane.

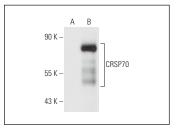
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

CRSP70 (F-5): sc-137196 is recommended as a positive control antibody for Western Blot analysis of enhanced human CRSP70 expression in CRSP70 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



CRSP70 (F-5): sc-137196. Western blot analysis of CRSP70 expression in non-transfected: sc-117752 (A) and human CRSP70 transfected: sc-112474 (B) 293T whole cell Ivsates.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

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