

Med8 (m): 293T Lysate: sc-125596

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 II (Pol II). The mediator complex is one such multi-protein structure that functions as a bridge between regulatory proteins and Pol II, thereby regulating Pol II-dependent transcription. Med8 (mediator complex subunit 8), also known as arc32 (activator-recruited cofactor 32 kDa component), is a 268 amino acid protein that localizes to the nucleus and exists as a component of the mediator complex. Involved in the pathway of protein modification and ubiquitination, Med8 is involved in transcriptional regulation and may also recruit E3 ubiquitin-protein ligase complexes to proteins targeted for proteasomal degradation. Multiple isoforms of Med8 exist due to alternative splicing events.

REFERENCES

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3. Brower, C.S., et al. 2002. Mammalian mediator subunit mMed8 is an Elongin BC-interacting protein that can assemble with CUL-2 and Rbx1 to reconstitute a ubiquitin ligase. *Proc. Natl. Acad. Sci. USA* 99: 10353-10358.
4. Sato, S., et al. 2003. Identification of mammalian mediator subunits with similarities to yeast Mediator subunits Srb5, Srb6, Med11, and Rox3. *J. Biol. Chem.* 278: 15123-15127.
5. Sato, S., et al. 2003. A mammalian homolog of *Drosophila melanogaster* transcriptional coactivator intersex is a subunit of the mammalian mediator complex. *J. Biol. Chem.* 278: 49671-49674.
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7. Sato, S., et al. 2004. A set of consensus mammalian mediator subunits identified by multidimensional protein identification technology. *Mol. Cell* 14: 685-691.
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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.

PROTOCOLS

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

CHROMOSOMAL LOCATION

Genetic locus: Med8 (mouse) mapping to 4 D2.1.

PRODUCT

Med8 (m): 293T Lysate represents a lysate of mouse Med8 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Med8 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Med8 antibodies. Recommended use: 10-20 µl per lane.

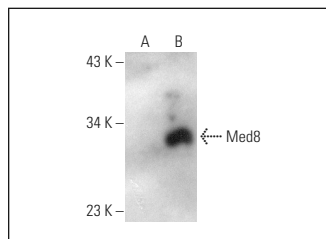
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Med8 (A-3): sc-365713 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse Med8 expression in Med8 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

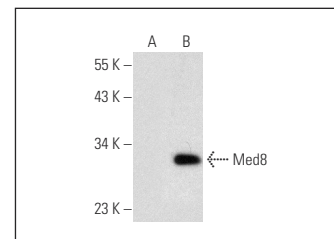
RECOMMENDED SUPPORT REAGENTS

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

DATA



Med8 (A-3): sc-365713. Western blot analysis of Med8 expression in non-transfected: sc-117752 (A) and mouse Med8 transfected: sc-125596 (B) 293T whole cell lysates.



Med8 (A-5): sc-365960. Western blot analysis of Med8 expression in non-transfected: sc-117752 (A) and mouse Med8 transfected: sc-125596 (B) 293T whole cell lysates.

RESEARCH USE

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