

Med8 (G-14): sc-103620

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

- 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.
- Näär, A.M., et al. 1999. Composite co-activator ARC mediates chromatin-directed transcriptional activation. *Nature* 398: 828-832.
- 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.
- 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.
- 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.
- Tomomori-Sato, C., et al. 2004. A mammalian mediator subunit that shares properties with *Saccharomyces cerevisiae* mediator subunit Cse2. *J. Biol. Chem.* 279: 5846-5851.

CHROMOSOMAL LOCATION

Genetic locus: MED8 (human) mapping to 1p34.2; Med8 (mouse) mapping to 4 D2.1.

SOURCE

Med8 (G-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Med8 of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-103620 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

RESEARCH USE

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

APPLICATIONS

Med8 (G-14) is recommended for detection of Med8 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other Med family members.

Med8 (G-14) is also recommended for detection of Med8 in additional species, including canine.

Suitable for use as control antibody for Med8 siRNA (h): sc-88195, Med8 siRNA (m): sc-149359, Med8 shRNA Plasmid (h): sc-88195-SH, Med8 shRNA Plasmid (m): sc-149359-SH, Med8 shRNA (h) Lentiviral Particles: sc-88195-V and Med8 shRNA (m) Lentiviral Particles: sc-149359-V.

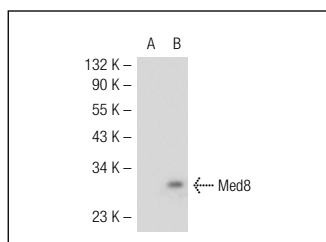
Molecular Weight of Med8: 29 kDa.

Positive Controls: Med8 (m): 293T Lysate: sc-125596 or Hep G2 cell lysate: sc-2227.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



Med8 (G-14): sc-103620. Western blot analysis of Med8 expression in non-transfected: sc-117752 (A) and mouse Med8 transfected: sc-125596 (B) 293T whole cell lysates.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

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