

# Med8 (C-13): sc-103619

## 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.

## CHROMOSOMAL LOCATION

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

## SOURCE

Med8 (C-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus 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-103619 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 (C-13) 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), immunohistochemistry (including paraffin-embedded sections) (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 (C-13) is also recommended for detection of Med8 in additional species, including equine, canine, bovine, porcine and avian.

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.

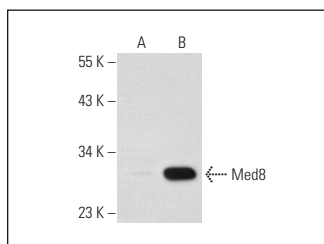
Molecular Weight of Med8: 29 kDa.

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

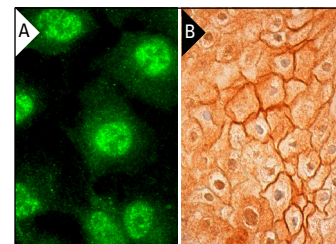
## RECOMMENDED SECONDARY REAGENTS

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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

## DATA



Med8 (C-13): sc-103619. Western blot analysis of Med8 expression in non-transfected: sc-117752 (A) and mouse Med8 transfected: sc-125596 (B) 293T whole cell lysates.



Med8 (C-13): sc-103619. Immunofluorescence staining of formalin-fixed HepG2 cells showing nuclear and cytoplasmic localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human uterine cervix tissue showing nuclear, cytoplasmic and membrane staining of squamous epithelial cells (B).

## SELECT PRODUCT CITATIONS

1. Grontved, L., et al. 2010. MED14 tethers mediator to the N-terminal domain of peroxisome proliferator-activated receptor  $\gamma$  and is required for full transcriptional activity and adipogenesis. *Mol. Cell. Biol.* 30: 2155-2169.

## 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](http://www.scbt.com) or our catalog for detailed protocols and support products.


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Try **Med8 (A-5): sc-365960** or **Med8 (A-3): sc-365713**, our highly recommended monoclonal alternatives to Med8 (C-13).