

Med4 (G-18): sc-84200

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. Med4 (mediator complex subunit 4), also known as ARC36, DRIP36 or VDRIP, is a 270 amino acid protein that localizes to the nucleus and exists as a component of the mediator complex. Working in tandem with several other proteins, including Med8 and Med25, Med4 serves as a scaffold for the assembly of a functional preinitiation complex with Pol II and general transcription factors, thereby activating the transcription of Pol II-dependent genes.

REFERENCES

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- 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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CHROMOSOMAL LOCATION

Genetic locus: MED4 (human) mapping to 13q14.2; Med4 (mouse) mapping to 14 D3.

SOURCE

Med4 (G-18) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an internal region of Med4 of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-84200 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Med4 (G-18) is recommended for detection of Med4 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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.

Med4 (G-18) is also recommended for detection of Med4 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Med4 siRNA (h): sc-106214, Med4 siRNA (m): sc-149357, Med4 shRNA Plasmid (h): sc-106214-SH, Med4 shRNA Plasmid (m): sc-149357-SH, Med4 shRNA (h) Lentiviral Particles: sc-106214-V and Med4 shRNA (m) Lentiviral Particles: sc-149357-V.

Molecular Weight of Med4: 30 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

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

RESEARCH USE

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

PROTOCOLS

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



Try **Med4 (D-6): sc-398179** or **Med4 (D-7): sc-398180**, our highly recommended monoclonal alternatives to Med4 (G-18).