

Med28 (L-14): sc-104372

BACKGROUND

In mammalian cells, transcription is regulated in part by high molecular weight coactivating 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. Med28 (mediator complex subunit 28), also known as EG1 (endothelial-derived protein 1), magicin (merlin and GRB2-interacting cytoskeletal protein) or tumor angiogenesis marker EG-1, is a 178 amino acid subunit of the Mediator complex that localizes to both nucleus and cytoplasm. Widely expressed with highest expression in vascular tissues such as placenta, testis and liver, Med28 participates in the regulation of Pol II-mediated gene expression and is thought to play a key role in signal regulation and cell proliferation. It is suggested that Med28 functions as a repressor of SMC (smooth muscle cell) differentiation and may be associated with abnormalities in SMC growth and differentiation, including atherosclerosis, asthma, hypertension and smooth muscle tumors.

REFERENCES

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- Wiederhold, T., et al. 2004. Magicin, a novel cytoskeletal protein associates with the NF2 tumor suppressor merlin and GRB2. *Oncogene* 23: 8815-8825.
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- Yoon, N.K., et al. 2010. Elevated Med28 expression predicts poor outcome in women with breast cancer. *BMC Cancer.* 10: 335.

CHROMOSOMAL LOCATION

Genetic locus: MED28 (human) mapping to 4p15.32; Med28 (mouse) mapping to 5 B3.

STORAGE

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

SOURCE

Med28 (L-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Med28 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-104372 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Med28 (L-14) is recommended for detection of Med28 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.

Suitable for use as control antibody for Med28 siRNA (h): sc-89259, Med28 siRNA (m): sc-106213, Med28 shRNA Plasmid (h): sc-89259-SH, Med28 shRNA Plasmid (m): sc-106213-SH, Med28 shRNA (h) Lentiviral Particles: sc-89259-V and Med28 shRNA (m) Lentiviral Particles: sc-106213-V.

Molecular Weight of Med28: 20 kDa.

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) 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.

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.