

# Med7 (E-7): sc-101188

## 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. These complexes include the SMCC (SRB and MED protein cofactor complex), which consists of various subunits that share homology with several components of the yeast transcriptional mediator complexes, and including the human proteins Srb7, Med6 (also designated DRIP33) and Med7 (also designated DRIP34). SMCC associates with the Pol II (RNA polymerase II) holoenzyme through Srb7 and, in turn, enhances gene-specific activation or repression induced by DNA-binding transcription factors. Med6 and Med7, as well as other components of SMCC, associate with co-activator proteins from the TRAP (thyroid hormone receptor-activating protein) complex and DRIP (for vitamin D receptor interacting protein) complex to facilitate steroid receptor dependent transcriptional activation. Additionally, SMCC associates with PC4 (positive cofactor 4) to repress basal transcription independent of Pol II activity.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: MED7 (human) mapping to 5q33.3; Med7 (mouse) mapping to 11 B1.1.

## SOURCE

Med7 (E-7) is a mouse monoclonal antibody raised against recombinant Med7 of human origin.

## RESEARCH USE

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

## PRODUCT

Each vial contains 100 µg IgG<sub>2b</sub> kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

Med7 (E-7) is recommended for detection of Med7 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)] and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Suitable for use as control antibody for Med7 siRNA (h): sc-38581, Med7 siRNA (m): sc-38582, Med7 shRNA Plasmid (h): sc-38581-SH, Med7 shRNA Plasmid (m): sc-38582-SH, Med7 shRNA (h) Lentiviral Particles: sc-38581-V and Med7 shRNA (m) Lentiviral Particles: sc-38582-V.

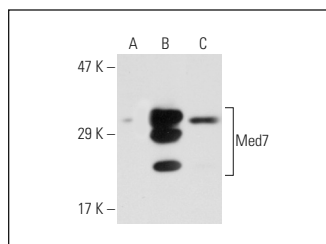
Molecular Weight of Med7: 27 kDa.

Positive Controls: HeLa nuclear extract: sc-2120, A-673 cell lysate: sc-2414 or Med7 (m): 293T Lysate: sc-125595.

## 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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

## DATA



Med7 (E-7): sc-101188. Western blot analysis of Med7 expression in non-transfected 293T: sc-117752 (A), mouse Med7 transfected 293T: sc-125595 (B) and A-673 (C) 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](http://www.scbt.com) for detailed protocols and support products.