

Med22 (D-13): sc-107737

BACKGROUND

Med22 is a subunit of the RNA polymerase II (Pol II) transcriptional mediator complex. The mediator complex is a coactivator involved in the regulated transcription of Pol II-dependent genes. Functioning as a bridge to convey information from gene-specific regulatory proteins to the basal Pol II transcription machinery, the mediator complex is recruited to promoter regions by directly interacting with regulatory proteins. The mediator complex also serves as a scaffold for the assembly of a functional pre-initiation complex with Pol II and other general transcription factors. Med22 (mediator complex subunit 22), also known as SURF5 (surfeit locus protein 5), is a ubiquitously expressed 200 amino acid nuclear protein that is one of several components of the mediator complex. There are two isoforms of Med22 that are produced as a result of alternative splicing events.

REFERENCES

- Garson, K., Duhig, T., Armes, N., Colombo, P. and Fried, M. 1995. Surf5: a gene in the tightly clustered mouse surfeit locus is highly conserved and transcribed divergently from the rpl7A (Surf3) gene. *Genomics* 30: 163-170.
- Garson, K., Duhig, T. and Fried, M. 1996. Tissue-specific processing of the Surf-5 and Surf-4 mRNAs. *Gene Expr.* 6: 209-218.
- Duhig, T., Ruhrberg, C., Mor, O. and Fried, M. 1998. The human surfeit locus. *Genomics* 52: 72-78.
- Angiolillo, A., Russo, G., Porcellini, A., Smaldone, S., D'Alessandro, F. and Pietropaolo, C. 2002. The human homologue of the mouse Surf5 gene encodes multiple alternatively spliced transcripts. *Gene* 284: 169-178.
- Martinez, E. 2002. Multi-protein complexes in eukaryotic gene transcription. *Plant Mol. Biol.* 50: 925-947.
- Esnault, C., Ghavi-Helm, Y., Brun, S., Soutourina, J., Van Berkum, N., Boschiero, C., Holstege, F. and Werner, M. 2008. Mediator-dependent recruitment of TFIID modules in preinitiation complex. *Mol. Cell* 31: 337-346.
- Online Mendelian Inheritance in Man, OMIM™. 2008. Johns Hopkins University, Baltimore, MD. MIM Number: 185641. World Wide Web URL: <http://www.ncbi.nlm.nih.gov/omim/>

CHROMOSOMAL LOCATION

Genetic locus: MED22 (human) mapping to 9q34.2; Med22 (mouse) mapping to 2 A3.

SOURCE

Med22 (D-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of Med22 of human origin.

STORAGE

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

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-107737 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Med22 (D-13) is recommended for detection of Med22 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).

Suitable for use as control antibody for Med22 siRNA (h): sc-92912, Med22 siRNA (m): sc-149351, Med22 shRNA Plasmid (h): sc-92912-SH, Med22 shRNA Plasmid (m): sc-149351-SH, Med22 shRNA (h) Lentiviral Particles: sc-92912-V and Med22 shRNA (m) Lentiviral Particles: sc-149351-V.

Molecular Weight of Med22: 22 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.


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Try **Med22 (D-10): sc-393738**, our highly recommended monoclonal alternative to Med22 (D-13).