

ChM-1 (H-300): sc-33563

BACKGROUND

ChM-1 is a cartilage-specific matrix glycoprotein that stimulates the growth of chondrocytes. ChM-1 inhibits angiogenesis by disrupting the tube formation of endothelial cells and thus is responsible for the avascular nature of cartilage. ChM-1 is strongly expressed by the proliferating and hypertrophic zones in the epiphyseal plate of long bones. ChM-1 accumulates in the interterritorial matrix around the lacunae. During development, downregulation of ChM-1 permits angiogenesis and ultimately bone formation on the cartilage template. ChM-1 expression is downregulated in the presence of several growth factors including TGF β 2, FGF2 and PTHLH. ChM-1 expression may also play a role in the hypovascularity and chondroid formation of pleomorphic adenomas. The gene encoding human ChM-1 maps to chromosome 13q14.3.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: LECT1 (human) mapping to 13q14.3; Lect1 (mouse) mapping to 14 D3.

RESEARCH USE

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

SOURCE

ChM-1 (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of ChM-1 of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

ChM-1 (H-300) is recommended for detection of ChM-1 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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).

ChM-1 (H-300) is also recommended for detection of ChM-1 in additional species, including equine and bovine.

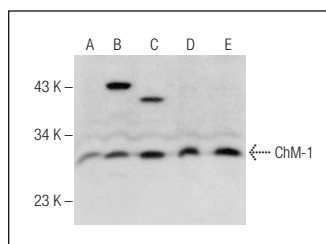
Suitable for use as control antibody for ChM-1 siRNA (h): sc-43279, ChM-1 siRNA (m): sc-43280, ChM-1 shRNA Plasmid (h): sc-43279-SH, ChM-1 shRNA Plasmid (m): sc-43280-SH, ChM-1 shRNA (h) Lentiviral Particles: sc-43279-V and ChM-1 shRNA (m) Lentiviral Particles: sc-43280-V.

Molecular Weight of ChM-1 precursor: 37 kDa.

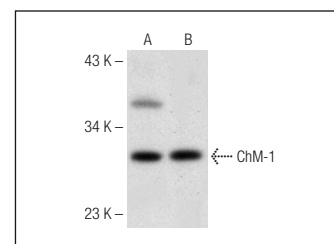
Molecular Weight of secreted ChM-1: 25 kDa.

Positive Controls: HL-60 whole cell lysate: sc-2209, HEL 92.1.7 cell lysate: sc-2270 or K-562 whole cell lysate: sc-2203.

DATA



ChM-1 (H-300): sc-33563. Western blot analysis of ChM-1 expression in U-2 OS (A), HOS (B), SW480 (C), HEL 92.1.7 (D) and K-562 (E) whole cell lysates.



ChM-1 (H-300): sc-33563. Western blot analysis of ChM-1 expression in NCI-H460 (A) and HL-60 (B) 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.

MONOS
Satisfaction
Guaranteed

Try **ChM-1 (H-10): sc-365693**, our highly recommended monoclonal alternative to ChM-1 (H-300).