

# MAGP-1 (D-17): sc-50083

## BACKGROUND

Elastic fibers endow loose connective tissue with a resilience that complements the tensile strength of collagenous fibers. They are composed of the protein elastin and a network of 10-12 nm microfibrils, which contain several glycoproteins, including fibrillin-1, fibrillin-2, and the microfibril-associated glycoproteins MAGP-1 and MAGP-2. During elastogenesis, MAGP-1 and MAGP-2 bind the fibrillins to tropoelastin in the extracellular matrix of several elastic and non-elastic tissues. MAGP-1 is an O-Glycosylated protein secreted to the extracellular space and the extracellular matrix. MAGP-1 associates with Biglycan and elastin in a ternary complex. It can make intermolecular disulfide bonds with other MAGP-1 molecules or with other microfibril components and may form transglutaminase cross-links. Underexpression and overexpression of the zebrafish homolog of MAGP-1 (Magp-1) protein levels demonstrate the critical role of MAGP-1 in vascular development.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: MFAP2 (human) mapping to 1p36.13; Mfap2 (mouse) mapping to 4 D3.

## SOURCE

MAGP-1 (D-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of MAGP-1 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-50083 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

MAGP-1 (D-17) is recommended for detection of MAGP-1 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)], 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).

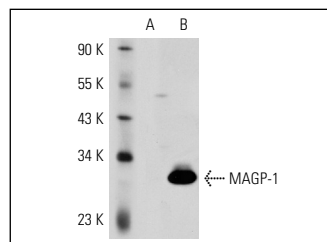
MAGP-1 (D-17) is also recommended for detection of MAGP-1 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for MAGP-1 siRNA (h): sc-60980, MAGP-1 siRNA (m): sc-60981, MAGP-1 shRNA Plasmid (h): sc-60980-SH, MAGP-1 shRNA Plasmid (m): sc-60981-SH, MAGP-1 shRNA (h) Lentiviral Particles: sc-60980-V and MAGP-1 shRNA (m) Lentiviral Particles: sc-60981-V.

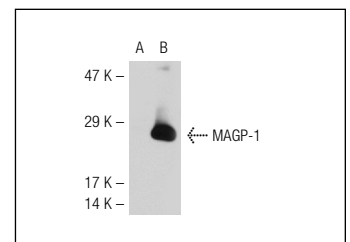
Molecular Weight of MAGP-1: 31 kDa.

Positive Controls: MAGP-1 (h): 293 Lysate: sc-111900, MAGP-1 (m): 293T Lysate: sc-125577 or mouse ovary extract: sc-2404.

## DATA



MAGP-1 (D-17): sc-50083. Western blot analysis of MAGP-1 expression in non-transfected: sc-110760 (A) and human MAGP-1 transfected: sc-111900 (B) whole cell lysates.



MAGP-1 (D-17): sc-50083. Western blot analysis of MAGP-1 expression in non-transfected: sc-117752 (A) and mouse MAGP-1 transfected: sc-125577 (B) 293T 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.

## RESEARCH USE

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

**MONOS**  
Satisfaction  
Guaranteed

Try **MAGP-1 (G-7): sc-166075** or **MAGP-1 (E-8): sc-271518**, our highly recommended monoclonal alternatives to MAGP-1 (D-17).