

MAGP-2 (H-90): sc-134437

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. MAGP-2 functions in maintaining extracellular matrix homeostasis through the stabilization of type I procollagen and through the binding of fibrillins to tropoelastin in the extracellular matrix of several elastic and non-elastic tissues. MAGP-2 may function outside of its role in elastic fibers and play a role in cellular differentiation through the binding of Notch 1, which leads to the release of Notch 1 extracellular domain, the subsequent activation of its signaling pathway and the release of soluble Jagged1.

REFERENCES

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- Lemaire, R., et al. 2005. Increased expression of type I collagen induced by microfibril-associated glycoprotein 2: novel mechanistic insights into the molecular basis of dermal fibrosis in scleroderma. *Arthritis Rheum.* 52: 1812-1823.
- Nehring, L.C., et al. 2005. The extracellular matrix protein MAGP-2 interacts with Jagged1 and induces its shedding from the cell surface. *J. Biol. Chem.* 280: 20349-20355.
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CHROMOSOMAL LOCATION

Genetic locus: MFAP5 (human) mapping to 12p13.31; Mfap5 (mouse) mapping to 6 F1.

SOURCE

MAGP-2 (H-90) is a rabbit polyclonal antibody raised against amino acids 1-90 mapping at the N-terminus of MAGP-2 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.

APPLICATIONS

MAGP-2 (H-90) is recommended for detection of MAGP-2 of human and, to a lesser extent, mouse and rat 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).

Suitable for use as control antibody for MAGP-2 siRNA (h): sc-60982, MAGP-2 siRNA (m): sc-60983, MAGP-2 shRNA Plasmid (h): sc-60982-SH, MAGP-2 shRNA Plasmid (m): sc-60983-SH, MAGP-2 shRNA (h) Lentiviral Particles: sc-60982-V and MAGP-2 shRNA (m) Lentiviral Particles: sc-60983-V.

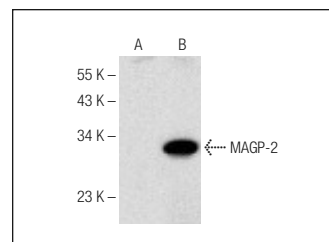
Molecular Weight of MAGP-2: 25 kDa.

Positive Controls: human MAGP-2 transfected HEK293T whole cell lysate.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



MAGP-2 (H-90): sc-134437. Western blot analysis of MAGP-2 expression in non-transfected (A) and human MAGP-2 transfected (B) HEK293T 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.