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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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SANTA CRUZ BIOTECHNOLOGY, INC.

MAGP-1 (m): 293T Lysate: sc-125577

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

1. Gibson, M.A. and Cleary, E.G. 1987. The immunohistochemical localisation of microfibril-associated glycoprotein (MAGP) in elastic and non-elastic tissues. Immunol. Cell Biol. 65: 345-356.
2. Gibson, M.A., Kumaratilake, J.S. and Cleary, E.G. 1989. The protein components of the 12 nm microfibrils of elastic and non-elastic tissues. J. Biol. Chem. 264: 4590-4598.
3. Kumaratilake, J.S., Gibson, M.A., Fanning, J.C. and Cleary, E.G. 1989. The tissue distribution of microfibrils reacting with a monospecific antibody to MAGP, the major glycoprotein antigen of elastin-associated microfibrils. Eur. J. Cell Biol. 50: 117-127.
4. Kobayashi, R., Tashima, Y., Masuda, H., Shozawa, T., Numata, Y., Miyauchi, K. and Hayakawa, T. 1989. Isolation and characterization of a new 36 kDa microfibril-associated glycoprotein from porcine aorta. J. Biol. Chem. 264: 17437-17444.
5. Segade, F., Trask, B.C., Broekelmann, T.J., Pierce, R.A. and Mecham, R.P. 2002. Identification of a matrix-binding domain in MAGP1 and MAGP2 and intracellular localization of alternative splice forms. J. Biol. Chem. 277: 11050-11057.
6. Penner, A.S., Rock, M.J., Kielty, C.M. and Shipley, J.M. 2002. Microfibril-associated glycoprotein-2 interacts with fibrillin-1 and fibrillin-2 suggesting a role for MAGP-2 in elastic fiber assembly. J. Biol. Chem. 277: 35044-35049.
7. Tsuruga, E., Yajima, T. and Irie, K. 2005. Microfibril-associated glycoprotein-1 and fibrillin-2 are associated with tropoelastin deposition *in vitro*. Int. J. Biochem. Cell. Biol. 37: 120-129.
8. Chen, E., Larson, J.D. and Ekker, S.C. 2006. Functional analysis of Zebrafish microfibril-associated glycoprotein-1 (Magp-1) *in vivo* reveals roles for microfibrils in vascular development and function. Blood 107: 4364-4374.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

CHROMOSOMAL LOCATION

Genetic locus: Mfap2 (mouse) mapping to 4 D3.

PRODUCT

MAGP-1 (m): 293T Lysate represents a lysate of mouse MAGP-1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

MAGP-1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive MAGP-1 antibodies. Recommended use: 10-20 µl per lane.

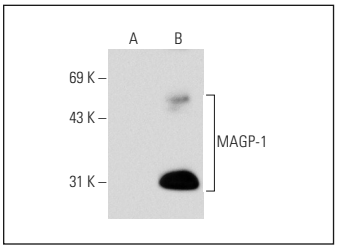
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

MAGP-1 (G-7): sc-166075 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse MAGP-1 expression in MAGP-1 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

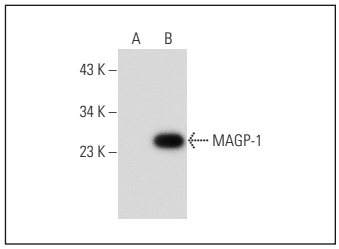
RECOMMENDED SUPPORT REAGENTS

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.

DATA



MAGP-1 (G-7): sc-166075. 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.



MAGP-1 (E-8): sc-271518. 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.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.