

# Multimerin-2 (H572): sc-65432

## BACKGROUND

Multimerin-2 belongs to a class of proteins called EMILINs (elastin microfibril interface located proteins) due to its EMI domain. EMILINs are extracellular matrix glycoproteins that localize to sites with proximity to elastin and microfibrils. EMILINs are abundant in elastin-rich tissues such as blood vessels, skin, heart and lung. Multimerin-2 (also known as Emilin-3 or EndoGlyx-1) is expressed during embryonic development. During skeletal development, Multimerin-2 is present at sites of cartilage and bone formation. In later stages of development, Multimerin-2 is expressed in the nervous plexus of the digestive tract and in the main bronchial branches. A developmental protein, Multimerin-2 is more readily detected in immature osteoblasts than in mature osteoblasts.

## REFERENCES

1. Hayward, C.P. and Kelton, J.G. 1995. Multimerin. *Curr. Opin. Hematol.* 2: 339-344.
2. Hayward, C.P. 1997. Multimerin: a bench-to-bedside chronology of a unique platelet and endothelial cell protein—from discovery to function to abnormalities in disease. *Clin. Invest. Med.* 20: 176-187.
3. Doliana, R., et al. 1999. EMILIN, a component of the elastic fiber and a new member of the C1q/tumor necrosis factor superfamily of proteins. *J. Biol. Chem.* 274: 16773-16781.
4. Doliana, R., et al. 2000. EMI, a novel cysteine-rich domain of EMILINs and other extracellular proteins, interacts with the gC1q domains and participates in multimerization. *FEBS Lett.* 484: 164-168.
5. Doliana, R., et al. 2000. Structure, chromosomal localization and promoter analysis of the human elastin microfibril interfase located protein (EMILIN) gene. *J. Biol. Chem.* 275: 785-792.
6. Colombatti, A., et al. 2000. The EMILIN protein family. *Matrix Biol.* 19: 289-301.
7. Christian, S., et al. 2001. Molecular cloning and characterization of EndoGlyx-1, an EMILIN-like multisubunit glycoprotein of vascular endothelium. *J. Biol. Chem.* 276: 48588-48595.
8. Leimeister, C., et al. 2002. Developmental expression and biochemical characterization of Emu family members. *Dev. Biol.* 249: 204-218.
9. Doi, M., et al. 2004. Molecular cloning and characterization of a novel gene, EMILIN-5, and its possible involvement in skeletal development. *Biochem. Biophys. Res. Commun.* 313: 888-893.

## CHROMOSOMAL LOCATION

Genetic locus: MMRN2 (human) mapping to 10q23.2.

## SOURCE

Multimerin-2 (H572) is a mouse monoclonal antibody raised against Multimerin-2 of human origin.

## RESEARCH USE

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

## PRODUCT

Each vial contains 100 µg IgG<sub>1</sub> in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

Multimerin-2 (H572) is recommended for detection of Multimerin-2 of human origin by 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 flow cytometry (1 µg per 1 x 10<sup>6</sup> cells).

Suitable for use as control antibody for Multimerin-2 siRNA (h): sc-75844, Multimerin-2 shRNA Plasmid (h): sc-75844-SH and Multimerin-2 shRNA (h) Lentiviral Particles: sc-75844-V.

Molecular Weight of Multimerin-2: 104 kDa.

## SELECT PRODUCT CITATIONS

1. Barbera, S., et al. 2019. The small GTPase Rab5c is a key regulator of trafficking of the CD93/Multimerin-2/β1 integrin complex in endothelial cell adhesion and migration. *Cell Commun. Signal.* 17: 55.

## STORAGE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.