

Osteoglycin (M-70): sc-67170

BACKGROUND

The small leucine-rich proteoglycan (SLRP) family of proteins contains various proteins such as Decorin, Biglycan, Fibromodulin, Keratocan, Lumican, Osteoadherin and Osteoglycin. These proteins all have similar functions as they all mediate extracellular matrix organization and act as binding partners of TGF β . Osteoglycin, which also may be designated osteoinductive factor (OIF), is a secreted protein detected in bone tissues. Osteoglycin induces the formation of bone in conjunction with either TGF β 1 or TGF β 2. The precursor form of the OGN gene product, designated Mimecan, is subject to *in situ* proteolytic cleavage to yield the mature Osteoglycin.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Ogn (mouse) mapping to 13 A5.

SOURCE

Osteoglycin (M-70) is a rabbit polyclonal antibody raised against amino acids 21-90 mapping near the N-terminus of Osteoglycin of mouse 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

Osteoglycin (M-70) is recommended for detection of Osteoglycin and Osteoglycin precursor (Mimecan) of mouse and rat 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).

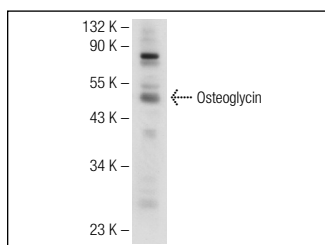
Suitable for use as control antibody for Osteoglycin siRNA (m): sc-61268, Osteoglycin shRNA Plasmid (m): sc-61268-SH and Osteoglycin shRNA (m) Lentiviral Particles: sc-61268-V.

Molecular Weight of Osteoglycin precursor (Mimecan): 34 kDa.

Molecular Weight of mature/glycosylated Osteoglycin: 12-25 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210.

DATA



Osteoglycin (M-70): sc-67170. Western blot analysis of Osteoglycin expression in NIH/3T3 whole cell lysate.

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.

PROTOCOLS

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



Try **Osteoglycin (G-1): sc-374463**, our highly recommended monoclonal alternative to Osteoglycin (M-70).