Osteoglycin (G-1): sc-374463

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 TGFβ. 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 TGFβ1 or TGFβ2. The precursor form of the OGN gene product, designated Mimecan, is subject to in situ proteolytic cleavage to yield the mature Osteoglycin.

CHROMOSOMAL LOCATION
Genetic locus: OGN (human) mapping to 9q22.31; Ogn (mouse) mapping to 13 A5.

SOURCE
Osteoglycin (G-1) is a mouse monoclonal antibody raised against amino acids 21-90 mapping near the N-terminus of Osteoglycin of mouse origin.

PRODUCT
Each vial contains 200 µg IgGk kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Osteoglycin (G-1) is available conjugated to agarose (sc-374463 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-374463 HRP), 200 µg/ml, for WB, IHC(D) and ELISA; to either phycocerythrin (sc-374463 PE), fluorescein (sc-374463 FITC), Alexa Fluor® 488 (sc-374463 AF488), Alexa Fluor® 546 (sc-374463 AF546), Alexa Fluor® 594 (sc-374463 AF594) or Alexa Fluor® 647 (sc-374463 AF647), 200 µg/ml, for WB (RGB), IF, IHC(PE) and FCM; and to either Alexa Fluor® 680 (sc-374463 AF680) or Alexa Fluor® 790 (sc-374463 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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APPLICATIONS
Osteoglycin (G-1) is recommended for detection of Osteoglycin and Osteoglycin precursor (Mimecan) of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:10000), 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 Osteoglycin siRNA (h): sc-61267, Osteoglycin siRNA (m): sc-61268, Osteoglycin shRNA Plasmid (h): sc-61267-SH, Osteoglycin shRNA Plasmid (m): sc-61268-SH, Osteoglycin shRNA (h) Lentiviral Particles: sc-61267-V and Osteoglycin shRNA (m) Lentiviral Particles: sc-61268-V.

Molecular Weight of Osteoglycin precursor: 34 kDa.

Molecular Weight of mature/glycosylated Osteoglycin: 12.5-25 kDa.

Positive Controls: MCF7 whole cell lysate: sc-2206, NIH/3T3 whole cell lysate: sc-2210 or HeLa whole cell lysate: sc-2200.

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

DATA

SELECT PRODUCT CITATIONS


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.