

Osteoadherin (N-18): sc-50157

BACKGROUND

Osteoadherin (OSAD) is a bone proteoglycan containing keratan sulfate that belongs to the small leucine-rich proteoglycan (SLRP) family. Osteoadherin promotes Integrin $\alpha\beta 3$ -mediated cell binding. The central region of Osteoadherin consists of eleven B-type, leucine-rich repeats ranging in length from 20 to 30 residues. The full, primary sequence of Osteoadherin contains four putative sites for tyrosine sulfation, three of which are at the N-terminal end of the molecule, six assumed sites for N-linked glycosylation, and a large and very acidic C-terminal domain, which is unique to Osteoadherin. Expression of Osteoadherin is limited to extracellular space and the extracellular matrix, as it is a secreted protein.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: OMD (human) mapping to 9q22.31; Omd (mouse) mapping to 13 A5.

RESEARCH USE

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

SOURCE

Osteoadherin (N-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Osteoadherin of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-50157 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Osteoadherin (N-18) is recommended for detection of Osteoadherin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

Osteoadherin (N-18) is also recommended for detection of Osteoadherin in additional species, including bovine and porcine.

Suitable for use as control antibody for Osteoadherin siRNA (h): sc-61265, Osteoadherin siRNA (m): sc-61266, Osteoadherin shRNA Plasmid (h): sc-61265-SH, Osteoadherin shRNA Plasmid (m): sc-61266-SH, Osteoadherin shRNA (h) Lentiviral Particles: sc-61265-V and Osteoadherin shRNA (m) Lentiviral Particles: sc-61266-V.

Molecular Weight of Osteoadherin: 60 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

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



Try **Osteoadherin (B-10): sc-271102**, our highly recommended monoclonal alternative to Osteoadherin (N-18).