



Biotinylated Anti-human Osteoadherin Antibody

ORDERING INFORMATION

Catalog Number: BAF2884

Lot Number: WLI01

Size: 50 µg

Formulation: 0.2 µm filtered solution in PBS with BSA

Storage: -20° C

Reconstitution: sterile 0.1% BSA in TBS

Specificity: human Osteoadherin

Immunogen: NS0-derived rhOSAD

Ig Type: goat IgG

Application: Western blot

Preparation

Produced in goats immunized with purified, NS0-derived, recombinant human Osteoadherin (rhOSAD). Human Osteoadherin specific IgG was purified by human Osteoadherin affinity chromatography and then biotinylated. Human OSAD, also known as osteomodulin, is an 85 kDa member of the SLRP (small leucine-rich proteoglycan) family. It is synthesized as a 421 amino acid (aa) precursor that contains a 20 aa signal sequence and a 401 aa mature region. The mature protein contains eleven leucine-rich repeats plus three N-terminal tyrosines that may be sulfated. When OSAD contains keratan sulfate, it is 85 kDa in size; when proteoglycan is absent, simple glycosylation increases its size to 60 kDa. OSAD likely plays a role in bone mineralization. Mature human OSAD shares 84%, 81% and 80% aa sequence identity with bovine, mouse and rat mature OSAD, respectively.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

Reconstitution

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 µg/mL.

Storage

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

Specificity

This antibody has been selected for use as a detection antibody in human Osteoadherin western blots.

Application

Western Blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human Osteoadherin. The detection limit for rhOSAD is approximately 2 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows approximately 40% cross-reactivity with rmOSAD.

Optimal dilutions should be determined by each laboratory for each application.