



Biotinylated Anti-human Nidogen-1/Entactin Antibody

ORDERING INFORMATION

Catalog Number: BAF2570

Lot Number: UYX01

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 Nidogen-1

Immunogen: NS0-derived rhNidogen-1

Ig Type: goat IgG

Applications: Western blot
Immunohistochemistry
ELISA detection

Preparation

Produced in goats immunized with purified, NS0-derived, recombinant human Nidogen-1 (rhNidogen-1). Human Nidogen-1 specific IgG was purified by human Nidogen-1 affinity chromatography and then biotinylated. Nidogen-1, also known as Entactin, is a 150 kDa secreted sulfated glycoprotein found in basement membranes. It is a modular protein that comprises three globulin domains (G1 - G3). Nidogen-1 mediates complex formation between laminin and collagen type IV, and between laminin and the proteoglycan perlecan. It also binds fibulins 1 and 2. Human Nidogen-1 shares 86% amino acid sequence homology with mouse Nidogen-1 and less than 50% sequence identity with human Nidogen-2.

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 the applications listed below.

Applications

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human Nidogen-1. The detection limit for rhNidogen-1 is approximately 5 ng/lane under non-reducing and reducing conditions.

Immunohistochemistry - This antibody will detect Nidogen-1 in cells and tissues. The working dilution is 5 - 15 µg/mL. For chromogenic detection of labeling, use R&D Systems Cell and Tissue Staining Kits (CTS Series).

ELISA detection - This biotinylated antibody can be used as a detection reagent in a human Nidogen-1 sandwich immunoassay in combination with the human Nidogen-1 capture reagent (Cat. # MAB2570) and recombinant human Nidogen-1 (Cat. # 2570-ND) as the standard. The suggested concentration range for this detection reagent is 0.1 - 0.4 µg/mL and should be titrated to determine the optimal concentration. A general protocol is provided at www.RnDSystems.com/MAPELISA. In this format, less than 0.2% cross-reactivity is observed with rhNidogen-2.

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

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