



Biotinylated Anti-human Stanniocalcin 1 Antibody

ORDERING INFORMATION

Catalog Number: BAF2958

Lot Number: CAAV02

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 STC1

Immunogen: NS0-derived rhSTC1
(aa 18 - 247)

Ig Type: goat IgG

Application: Western blot

Preparation

Produced in goats immunized with purified, NS0-derived, recombinant human Stanniocalcin 1 (rhSTC1; aa 18 - 247). Human STC1 specific IgG was purified by human STC1 affinity chromatography and then biotinylated. Human STC1 is a secreted disulfide-linked homodimeric phosphorylated glycoprotein hormone (50 kDa and higher molecular weight variants) that is related to the STC protein first discovered from corpuscles of stannius in fish. It is expressed in a wide variety of tissues and has endocrine/paracrine/autocrine functions relating to calcium and phosphate homeostasis, reproduction and development. The 230 amino acid (aa) mature STC1 contains five intrachain disulfide and one interchain disulfide bond. Human STC1 and STC2 share approximately 30% aa sequence homology. STC1 is highly homologous across species. Human STC1 shares > 95% sequence homology with mouse, rat and bovine STC1.

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 STC1 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 STC1. The detection limit for rhSTC1 is approximately 10 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows less than 1% cross-reactivity with rhSTC2 and rmSTC2.

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