

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human Stanniocalcin 1/STC-1 in direct ELISAs and Western blots. In these formats, less than 1% cross-reactivity with recombinant human STC-2 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human Stanniocalcin 1 Thr18-Ala247 Accession # P52823
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Recombinant Human Stanniocalcin 1

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Human STC-1 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 STC-1 contains five intrachain disulfide and one interchain disulfide bond. Human STC-1 and STC-2 share approximately 30% aa sequence homology. STC-1 is highly homologous across species. Human STC-1 shares > 95% sequence homology with mouse, rat, and bovine STC-1.