

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

Stanniocalcin-1 (STC-1) is a secreted 35 kDa disulfide-linked homodimer that is related to a calcium-regulating hormone in fish. Mature human Stanniocalcin-1 is 230 aa in length, and contains five intrachain disulfide bonds plus one interchain disulfide bond. Circulating Stanniocalcin-1 is both glycosylated and phosphorylated. Mature human Stanniocalcin-1 is 98%, 97%, 95% and 97% aa identical to mature canine, mouse, bovine and rat Stanniocalcin-1, respectively. Stanniocalcin-1 promotes phosphorus absorption and blocks chemokine-induced chemotaxis.