

[Go to Product page](#)

## Datasheet for ABIN6720178 Stanniocalcin 1 ELISA Kit

### Overview

Quantity:	1 kit
Target:	Stanniocalcin 1 (STC1)
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	31.2 pg/mL - 2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

### Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric

Characteristics:	<p>Synonyms: Stanniocalcin, Stanniocalcin-1, STC, STC-1, STC1, STC1_HUMAN</p> <p>Background: Stanniocalcin-1 is a glycoprotein which is encoded by the STC1 gene. This gene encodes a secreted, homodimeric glycoprotein that is expressed in a wide variety of tissues and may have autocrine or paracrine functions. Human Stanniocalcin-1 is a putative molecular biomarker of leukemic microenvironment and the only molecular function known up to date is a SUMO E3 ligase activity in the SUMOylation cycle. STC1 interacts with lots of proteins in the cytoplasm, mitochondria, endoplasmatic reticulum and dot-like fashion in the nucleus. The N-terminal region of STC1 is the function region which is responsible to establish the interaction</p>
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## Product Details

with its partners, including SUMO1. Low resolution studies shows that STC1 is an anti-parallel homodimer in solution and the cysteine 202 is responsible for the dimerization of this protein. All the 5 disulfide bonds of human STC1 are conserved and have the same profile of fish STC.

Gene Name: STC1

Production: Natural and recombinant human STC1. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: V34-A247

## Target Details

Target:	Stanniocalcin 1 (STC1)
Alternative Name:	Stanniocalcin 1 - STC1 ( <a href="#">STC1 Products</a> )
Gene ID:	6781
NCBI Accession:	<a href="#">NP_003146</a>
UniProt:	<a href="#">P52823</a>
Pathways:	<a href="#">Hormone Activity</a>

## Application Details

Application Notes:	<p>Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL human STC1 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of human cell culture supernates, serum and plasma (heparin, EDTA) to each empty well. It is recommended that each human STC1 standard solution and each sample be measured in duplicate.</p> <p>Blood Product Anticoagulant: Heparin Sodium</p> <p>ELISA Dilution: 31.2pg/mL-2000pg/mL</p>
Sample Volume:	100 µL
Plate:	Pre-coated
Restrictions:	For Research Use only

## Handling

Storage:	RT, 4 °C, -20 °C
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## Handling

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Storage Comment: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.