

Human Stanniocalcin 1/STC1 PicoKine ELISA Kit | STC1 elisa kit

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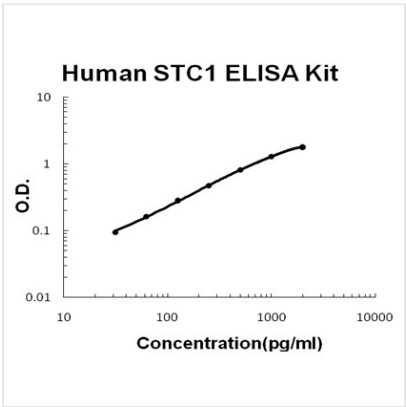
CATALOG # AAA46145	REACTIVITY Human
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PRODUCT SYNONYMS

Stanniocalcin 1/STC1 PicoKine; Human Stanniocalcin 1/STC1 PicoKine ELISA Kit; Stanniocalcin-1; Stanniocalcin; STC; STC-1; STC1; STC1_HUMAN ; stanniocalcin 1; STC1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human STC1
Sequence Length	247
Assay Range	31.2pg/ml-2000pg/ml
Sensitivity	<10pg/ml
Sample	For quantitative detection of human STC1 in cell culture supernates, serum and plasma(heparin, EDTA).
Immunogen	NSO, V34-A247
Assay Procedure Step 1	Aliquot 0.1ml 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 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml 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.
Intra-Assay Precision	Inter-Assay Precision Sample 1 2 3 1 2 3 n 16 16 16 24 24 24 Mean(pg/ml) 246 801 1351 254 775 1416 Standard deviation 14.02 48.06 74.30 15.74 49.6 67.96 CV(%) 5.7 6.0 5.5 6.2 6.4 6.8
Sample Data	Concentration(pg/ml) 0 31.2 62.5 125 250 500 1000 2000 O.D. 0.054 0.094 0.162 0.282 0.470 0.812 1.285 1.777
Anticoagulant	Heparin or EDTA
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Human Stanniocalcin 1/STC1 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for STC1 elisa kit	Principle of the assay: Human STC1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for STC1 has been precoated onto 96-well plates. Standards (NSO, V34-A247) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for STC1 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the human STC1 amount of sample captured in plate. 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 with its partners, including SUMO1. Low resolution studies shows that STC1 is an anti-parallel homodimer in solution and the cystein 202 is responsible for the dimerization of this protein. All the 5 dissulfide bonds of human STC1 are conserved and have the same profile of fish STC.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4507265
NCBI GeneID	6781
NCBI Accession #	NP_003146.1
NCBI GenBank Nucleotide #	NM_003155.2
UniProt Accession #	P52823; Q71UE5; B4DN22
Molecular Weight	20,487 Da
NCBI Official Full Name	stanniocalcin-1
NCBI Official Synonym Full Names	stanniocalcin 1
NCBI Official Symbol	STC1
NCBI Official Synonym Symbols	STC
NCBI Protein Information	stanniocalcin-1
UniProt Protein Name	Stanniocalcin-1

UniProt Gene Name	STC1
UniProt Synonym Gene Names	STC; STC-1
UniProt Entry Name	STC1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/human-elisa-kits/stanniocalcin-1-stc1-picokine/46145>