

Human Stanniocalcin 1 ELISA Kit | STC1 elisa kit

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CATALOG #
AAA263089

REACTIVITY
Human

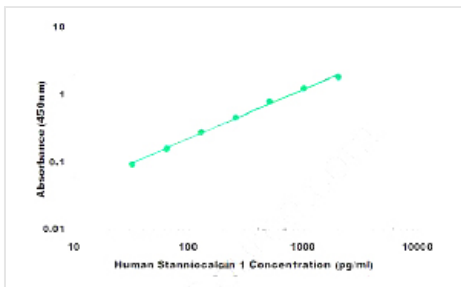
PRODUCT SYNONYMS

Stanniocalcin 1; Human Stanniocalcin 1 ELISA Kit; STC; Stanniocalcin-1; STC-1; STC1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	The Human Stanniocalcin 1 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Human Stanniocalcin 1 proteins within the range of 31.2 pg/ml - 2000 pg/ml.
Sequence Length	247
Samples	Serum, plasma
Sensitivity	Typically less than 10 pg/ml.
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for STC1 elisa kit	Principle of the Assay: The Human Stanniocalcin 1 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Human Stanniocalcin 1 in Cell Culture Supernates, Serum, Plasma. This assay employs an antibody specific for Human Stanniocalcin 1 coated on a 96-well plate. Standards and samples are pipetted into the wells and Stanniocalcin 1 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Human Stanniocalcin 1 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of Stanniocalcin 1 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm. Background/Introduction: 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.