

Human Stanniocalcin-2 (STC2) ELISA Kit | STC2 elisa kit

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CATALOG #
AAA330600

REACTIVITY
Human

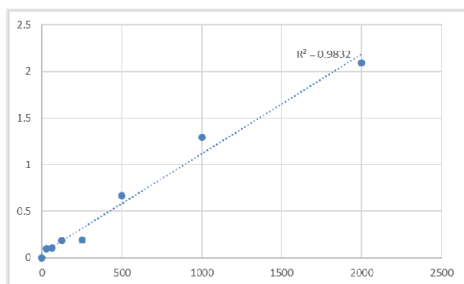
PRODUCT SYNONYMS

Stanniocalcin-2 (STC2); Human Stanniocalcin-2 (STC2) ELISA Kit; STC2; STC-2; STCRP; STC-related protein; stanniocalcin-related protein; STC2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Stanniocalcin-2 (STC2) ELISA Kit has high sensitivity and excellent specificity for detection of Human STC2. No significant cross-reactivity or interference between Human STC2 and analogues was observed.
Sequence Length	302
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Stanniocalcin-2 (STC2) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for STC2 elisa kit	Description: This Human Stanniocalcin-2 (STC2) ELISA Kit employs a two-site sandwich ELISA to quantitate STC2 in samples. An antibody specific for STC2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any STC2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for STC2 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of STC2 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: Stanniocalcin-2 is a secreted, homodimeric glycoprotein that is expressed in a wide variety of tissues and may have autocrine or paracrine functions. The encoded protein has 10 of its 15 cysteine residues conserved among stanniocalcin family members and is phosphorylated by casein kinase 2 exclusively on its serine residues. Its C-terminus contains a cluster of histidine residues which may interact with metal ions. The protein may play a role in the regulation of renal and intestinal calcium and phosphate transport, cell metabolism, or cellular calcium/phosphate homeostasis. Constitutive overexpression of human stanniocalcin 2 in mice resulted in pre- and postnatal growth restriction, reduced bone and skeletal muscle growth, and organomegaly.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4507267
NCBI GeneID	8614
NCBI Accession #	NP_003705.1
NCBI GenBank Nucleotide #	NP_003705.1
UniProt Accession #	O76061
NCBI Official Full Name	stanniocalcin-2
NCBI Official Synonym Full Names	stanniocalcin 2
NCBI Official Symbol	STC2
NCBI Official Synonym Symbols	STC-2; STCRP
NCBI Protein Information	stanniocalcin-2
UniProt Protein Name	Stanniocalcin-2
UniProt Gene Name	STC2
UniProt Synonym Gene Names	STC-2; STC-related protein; STCRP
UniProt Entry Name	STC2_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.