

## ARG82462 Rat Stanniocalcin 2 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

| Cat. No.     | Component Name                        | Package              | Temp  |
|--------------|---------------------------------------|----------------------|---|
| ARG82462-001 | Antibody-coated microplate            | 8 X 12 strips        | 4°C. Unused strips should be sealed tightly in the air-tight pouch. |
| ARG82462-002 | Standard                              | 2 X 10 ng/vial       | 4°C   |
| ARG82462-003 | Standard/Sample diluent               | 30 ml (Ready to use) | 4°C   |
| ARG82462-004 | Antibody conjugate concentrate (100X) | 1 vial (100 µl)      | 4°C   |
| ARG82462-005 | Antibody diluent buffer               | 12 ml (Ready to use) | 4°C   |
| ARG82462-006 | HRP-Streptavidin concentrate (100X)   | 1 vial (100 µl)      | 4°C   |
| ARG82462-007 | HRP-Streptavidin diluent buffer       | 12 ml (Ready to use) | 4°C   |
| ARG82462-008 | 25X Wash buffer                       | 20 ml                | 4°C   |
| ARG82462-009 | TMB substrate                         | 10 ml (Ready to use) | 4°C (Protect from light)  |
| ARG82462-010 | STOP solution                         | 10 ml (Ready to use) | 4°C   |
| ARG82462-011 | Plate sealer                          | 4 strips             | Room temperature  |

### Summary

|                     |   |
|---------------------|---|
| Product Description | ARG82462 Rat Stanniocalcin 2 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat Stanniocalcin 2 in serum, plasma (heparin) and cell culture supernatants. |
| Tested Reactivity   | Rat   |
| Tested Application  | ELISA   |
| Target Name         | Stanniocalcin 2   |
| Conjugation         | HRP   |
| Conjugation Note    | Substrate: TMB and read at 450 nm.  |
| Sensitivity         | 78 pg/ml  |
| Sample Type         | Serum, plasma (heparin) and cell culture supernatants.  |
| Standard Range      | 156 - 10000 pg/ml   |
| Sample Volume       | 100 µl  |
| Precision           | Intra-Assay CV: 4.8%<br>Inter-Assay CV: 5.7%  |

Alternate Names STC-related protein; Stanniocalcin-2; STC-2; Stanniocalcin-related protein; STCRP

## Application Instructions

Assay Time ~ 5 hours

## Properties

Form 96 well

Storage instruction Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.

Note For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Gene Symbol STC2

Gene Full Name stanniocalcin 2

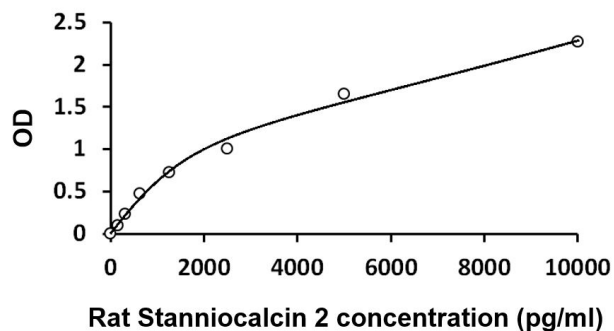
Background This gene encodes a secreted, homodimeric glycoprotein that is expressed in a wide variety of tissues and may have autocrine or paracrine functions. The encoded protein has 10 of its 15 cysteine residues conserved among stanniocalcin family members and is phosphorylated by casein kinase 2 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. Expression of this gene is induced by estrogen and altered in some breast cancers. [provided by RefSeq, Jul 2008]

Function Has an anti-hypocalcemic action on calcium and phosphate homeostasis. [UniProt]

Highlight Related products:  
[Stanniocalcin antibodies](#); [Stanniocalcin ELISA Kits](#);  
New ELISA data calculation tool:  
[Simplify the ELISA analysis by GainData](#)

Cellular Localization Secreted. [UniProt]

## Images



ARG82462 Rat Stanniocalcin 2 ELISA Kit standard curve image

ARG82462 Rat Stanniocalcin 2 ELISA Kit results of a typical standard run with optical density reading at 450 nm.