

**Stanniocalcin-2 (STC2) Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP1443a****Specification**

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**Stanniocalcin-2 (STC2) Antibody (N-term) Blocking peptide - Product Information**Primary Accession [O76061](#)**Stanniocalcin-2 (STC2) Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 8614**Other Names**

Stanniocalcin-2, STC-2, Stanniocalcin-related protein, STC-related protein, STCRP, STC2

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP1443a](/product/products/AP1443a) was selected from the N-term region of human STC2. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**Stanniocalcin-2 (STC2) Antibody (N-term) Blocking peptide - Protein Information****Name** STC2**Function**

Has an anti-hypocalcemic action on calcium and phosphate homeostasis.

**Cellular Location**

Secreted.

**Tissue Location**

Expressed in a variety of tissues including muscle, heart, pancreas, kidney, spleen, prostate, small intestine, colon and peripheral blood leukocytes

**Stanniocalcin-2 (STC2) Antibody (N-term) Blocking peptide - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

#### **Stanniocalcin-2 (STC2) Antibody (N-term) Blocking peptide - Images**

#### **Stanniocalcin-2 (STC2) Antibody (N-term) Blocking peptide - Background**

STC2 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. Expression is induced by estrogen and altered in some breast cancers.

#### **Stanniocalcin-2 (STC2) Antibody (N-term) Blocking peptide - References**

Ishibashi, K., et al., Biochem. Biophys. Res. Commun. 250(2):252-258 (1998). DiMattia, G.E., et al., Mol. Cell. Endocrinol. 146 (1-2), 137-140 (1998). Chang, A.C., et al., Mol. Cell. Endocrinol. 141 (1-2), 95-99 (1998).