

STC2 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP14314b**Specification**

STC2 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [O76061](#)**STC2 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 8614**Other Names**

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

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.

STC2 Antibody (C-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

STC2 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

STC2 Antibody (C-term) Blocking Peptide - Images

STC2 Antibody (C-term) Blocking Peptide - 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.

STC2 Antibody (C-term) Blocking Peptide - References

Yokoyama, K., et al. Nephron Clin Pract 115 (4), C237-C243 (2010) ; Law, A.Y., et al. Exp. Cell Res. 316(3):466-476(2010) ; Volland, S., et al. Int. J. Cancer 125(9):2049-2057(2009) ; Ieta, K., et al. Int. J. Cancer 125(4):926-931(2009) ; Tamura, K., et al. Cancer Sci. 100(5):914-919(2009)