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STC1 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP7977c

Specification

STC1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession P52823

STC1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 6781

Other Names
Stanniocalcin-1, STC-1, STC1, STC

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7977c was selected from the Center region of human STC1. 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.

STC1 Antibody (Center) Blocking Peptide - Protein Information

Name STC1

Synonyms STC

Function
Stimulates renal phosphate reabsorption, and could therefore prevent hypercalcemia.

Cellular Location
Secreted.

Tissue Location
Expressed in most tissues, with the highest levels in ovary, prostate, heart, kidney and thyroid. In the kidney, expression is confined to the nephron, specifically in the distal convoluted tubule and in the collecting tubule. Not detected in the brain, liver, spleen, peripheral blood leukocytes and adrenal medulla

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STC1 Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

STC1 Antibody (Center) Blocking Peptide - Images

STC1 Antibody (Center) Blocking Peptide - Background

STC1 is a secreted, homodimeric glycoprotein that is expressed in a wide variety of tissues and may have autocrine or paracrine functions. It contains 11 conserved cysteine residues and is phosphorylated by protein kinase C exclusively on its serine residues. This protein may play a role in the regulation of renal and intestinal calcium and phosphate transport, cell metabolism, or cellular calcium/phosphate homeostasis. Overexpression of human stanniocalcin 1 in mice produces high serum phosphate levels, dwarfism, and increased metabolic rate.

STC1 Antibody (Center) Blocking Peptide - References

Law,A.Y., Exp. Cell Res. 314 (16), 2975-2984 (2008)Holmes,D.I., Cell. Signal. 20 (3), 569-579 (2008)Chang,A.C., Genomics 47 (3), 393-398 (1998)