

Anti-Stanniocalcin 1/STC1 Antibody

Catalog # ABO11306

Specification

Anti-Stanniocalcin 1/STC1 Antibody - Product Information

Application WB
Primary Accession P52823
Host Rabbit

Reactivity Human, Mouse, Rat

Clonality Polyclonal Lyophilized

Description

Rabbit IgG polyclonal antibody for Stanniocalcin-1(STC1) detection. Tested with WB in Human; Mouse; Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-Stanniocalcin 1/STC1 Antibody - Additional Information

Gene ID 6781

Other Names

Stanniocalcin-1, STC-1, STC1, STC

Calculated MW 27621 MW KDa

Application Details

Western blot, 0.1-0.5 μg/ml, Human, Mouse, Rat

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Subcellular Localization

Secreted.

Tissue Specificity

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.

Protein Name

Stanniocalcin-1

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen

A synthetic peptide corresponding to a sequence in the middle region of human Stanniocalcin 1(150-167aa QLPNHFSNRYYNRLVRSL), identical to the related rat and mouse sequences.



PurificationImmunogen affinity purified.

Cross ReactivityNo cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-Stanniocalcin 1/STC1 Antibody - 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

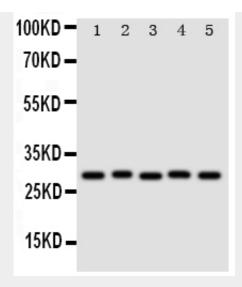
Anti-Stanniocalcin 1/STC1 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-Stanniocalcin 1/STC1 Antibody - Images





Anti-Stanniocalcin 1 antibody, ABO11306, Western blottingLane 1: Rat Kidney Tissue LysateLane 2: Rat Intestine Tissue LysateLane 3: Rat Stomach Tissue LysateLane 4: Rat Ovary Tissue LysateLane 5: SW620 Cell Lysate

Anti-Stanniocalcin 1/STC1 Antibody - Background

STC1(Stanniocalcin 1), also called STC, which is encoded by the STC1 gene. By fluorescence in situ hybridization, Chang et al.(1998) mapped the STC1 gene to chromosome 8p21-p11.2. Wagner et al.(1995) found evidence of STC immunoreactivity in human kidney and serum, suggesting the existence of the hormone in mammals. Zhang et al.(1998) reported a constitutive expression of STC in terminally differentiated neurons. Bell et al.(2001) determined that STC1 was 1 of several transcripts upregulated by umbilical vein endothelial cells during capillary morphogenesis in 3-dimensional collagen matrices.