10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

STC2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14314b

Product Information

Application	WB, IHC-P, E
Primary Accession	O76061
Other Accession	Q9R0K8, O88452, NP_003705.1
Reactivity	Mouse
Predicted	Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB11920
Calculated MW	33249
Antigen Region	273-302

Additional Information

Gene ID	8614
Other Names	Stanniocalcin-2, STC-2, Stanniocalcin-related protein, STC-related protein, STCRP, STC2
Target/Specificity	This STC2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 273-302 amino acids from the C-terminal region of human STC2.
Dilution	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	STC2 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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

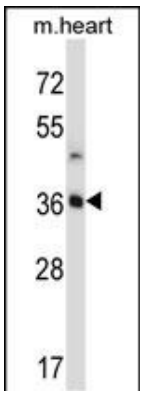
Background

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.

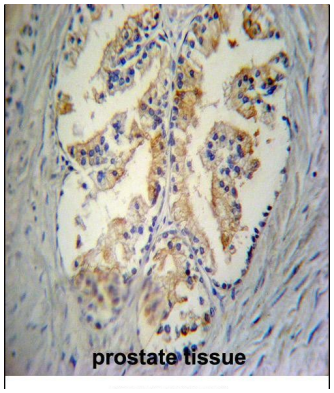
References

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)

Images



STC2 Antibody (C-term) (Cat. #AP14314b) western blot analysis in mouse heart tissue lysates (35ug/lane).This demonstrates the STC2 antibody detected the STC2 protein (arrow).



STC2 Antibody (C-term) (Cat. #AP14314b)immunohistochemistry analysis in formalin fixed and paraffin embedded human prostate tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of STC2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.