

Datasheet

STC2 polyclonal antibody

Catalog Number: PAB3090

Regulatory Status: For research use only (RUO)

Product Description: Rabbit polyclonal antibody raised against synthetic peptide of STC2.

Immunogen: A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human STC2.

Host: Rabbit

Reactivity: Human, Mouse

Applications: IHC-P, WB-Ti

(See our web site product page for detailed applications information)

Protocols: See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Form: Liquid

Purification: Protein A purification

Recommend Usage: Western Blot (1:1000)

Immunohistochemistry (1:50-100)

The optimal working dilution should be determined by the end user.

Storage Buffer: In PBS (0.09% sodium azide)

Storage Instruction: Store at 4°C. For long term storage store at -20°C.

Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 8614

Gene Symbol: STC2

Gene Alias: STC-2, STCRP

Gene Summary: 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. [provided by RefSeq]

References:

1. Molecular cloning and characterization of stanniocalcin-related protein. DiMattia GE, Varghese R, Wagner GF. Mol Cell Endocrinol. 1998 Nov 25;146(1-2):137-40.
2. Molecular cloning of a second human stanniocalcin homologue (STC2). Ishibashi K, Miyamoto K, Taketani Y, Morita K, Takeda E, Sasaki S, Imai M. Biochem Biophys Res Commun. 1998 Sep 18;250(2):252-8.
3. Identification of a second stanniocalcin cDNA in mouse and human: stanniocalcin 2. Chang AC, Reddel RR. Mol Cell Endocrinol. 1998 Jun 25;141(1-2):95-9.