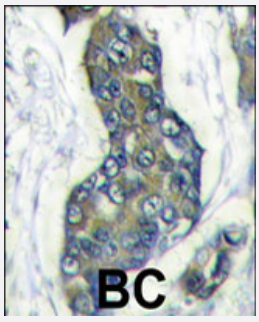
STC2 polyclonal antibody

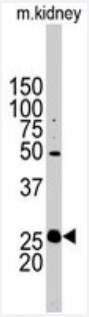
Catalog # PAB3090 Size 400 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with STC2 polyclonal antibody (Cat # PAB3090) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Western Blot (Tissue lysate)

Western blot analysis of STC2 polyclonal antibody (Cat # PAB3090) in mouse kidney tissue lysates (35 ug/lane). STC2 (arrow) was detected using the purified polyclonal antibody.

Specification

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
Form	Liquid
Purification	Protein A purification

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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.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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Gene Info — STC2

Entrez GeneID	8614
Protein Accession#	NP_003705;O76061
Gene Name	STC2
Gene Alias	STC-2, STCRP
Gene Description	stanniocalcin 2
Omim ID	603665
Gene Ontology	Hyperlink

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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
Other Designations	STC-related protein|stanniocalcin-related protein

Publication Reference

- Molecular cloning and characterization of stanniocalcin-related protein.

  DiMattia GE, Varghese R, Wagner GF.

  Molecular and Cellular Endocrinology 1998 Nov; 146(1-2):137.

- Molecular cloning of a second human stanniocalcin homologue (STC2).

  Ishibashi K, Miyamoto K, Taketani Y, Morita K, Takeda E, Sasaki S, Imai M.

  Biochemical and Biophysical Research Communications 1998 Sep; 250(2):252.

- Identification of a second stanniocalcin cDNA in mouse and human: stanniocalcin 2.

  Chang AC, Reddel RR.

  Molecular and Cellular Endocrinology 1998 Jun; 141(1-2):95.

Disease

- Amyotrophic lateral sclerosis
- Anoxia
- Genetic Predisposition to Disease
- Hyperparathyroidism

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