

For Research Use Only

STC1 Polyclonal antibody

Catalog Number: 20621-1-AP

Featured Product

14 Publications



Basic Information

Catalog Number:

20621-1-AP

Concentration:

350 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG14697

GenBank Accession Number:

BC029044

GeneID (NCBI):

6781

UNIPROT ID:

P52823

Full Name:

stanniocalcin 1

Calculated MW:

247 aa, 28 kDa

Observed MW:

31 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC, IP, Cell treatment

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse small intestine tissue,

IHC : human cervical cancer tissue,

Background Information

STC1, also named as stanniocalcin 1, a 56kDa homodimeric glycoprotein hormone, is highly expressed in a variety of cancers such as breast, ovarian, and colorectal cancers (PMID: 27459971). This gene encodes a secreted, homodimeric glycoprotein that is expressed in a wide variety of tissues and may have autocrine or paracrine functions. The protein may play a role in the regulation of renal and intestinal calcium and phosphate transport, cell metabolism, or cellular calcium/phosphate homeostasis. STC1 is implicated in several pathologies including retinal degeneration, cerebral ischemia, angiogenesis and inflammation (PMID: 25391215). The calculated molecular weight of STC1 is usually approximately 28 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Jian Wen	32996777	Cancer Biother Radiopharm	WB
Binda Sun	34268656	Neurochem Res	WB
Weijian Luo	32782542	Oncol Lett	IHC

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

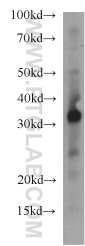
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E: Proteintech-CN@ptglab.com

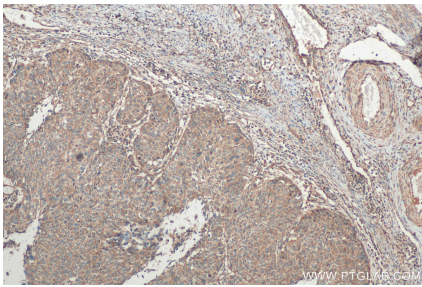
W: ptgcn.com

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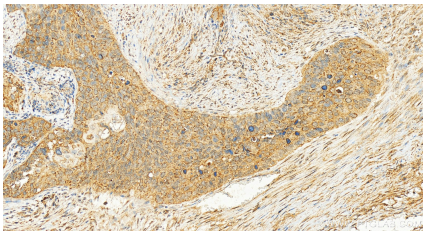
Selected Validation Data



mouse small intestine tissue were subjected to SDS PAGE followed by western blot with 20621-1-AP (STC1 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 20621-1-AP (STC1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 20621-1-AP (STC1 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).