

For Research Use Only

STC1 Polyclonal antibody

Catalog Number: 20621-1-AP

Featured Product

13 Publications



Basic Information

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| Catalog Number: 20621-1-AP | GenBank Accession Number: BC029044 | Purification Method: Antigen affinity purification |
| Size: 150ul , Concentration: 140 µg/ml by Bradford method using BSA as the standard; | GeneID (NCBI): 6781 | Recommended Dilutions: WB 1:500-1:1000 IHC 1:50-1:500 |
| Source: Rabbit | UNIPROT ID: P52823 | |
| Isotype: IgG | Full Name: stanniocalcin 1 | |
| Immunogen Catalog Number: AG14697 | Calculated MW: 247 aa, 28 kDa | |
| | Observed MW: 31 kDa | |

Applications

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| Tested Applications: WB, IHC, ELISA | Positive Controls: WB : mouse small intestine tissue, IHC : human cervical cancer tissue, |
| Cited Applications: WB, IP, IHC, 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 | |

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

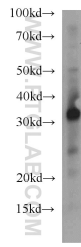
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

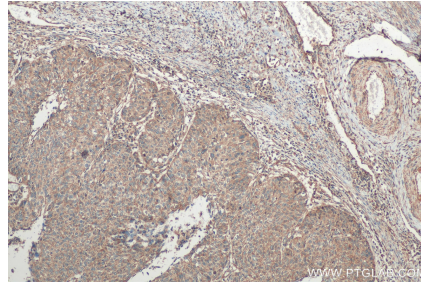
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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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).