

For Research Use Only

# Stanniocalcin 2 Polyclonal antibody

Catalog Number: 10314-1-AP

12 Publications



## Basic Information

<b>Catalog Number:</b> 10314-1-AP	<b>GenBank Accession Number:</b> BC000658	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 600 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 8614	<b>Recommended Dilutions:</b> IHC 1:50-1:500 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O76061	
<b>Isotype:</b> IgG	<b>Full Name:</b> stanniocalcin 2	
<b>Immunogen Catalog Number:</b> AG0359	<b>Calculated MW:</b> 33 kDa	

## Applications

**Tested Applications:**  
IF, IHC, ELISA

**Cited Applications:**  
WB, IF, IHC

**Species Specificity:**  
human

**Cited Species:**  
human

**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:**

**IHC :** human renal cell carcinoma tissue, human lung cancer tissue, human colon cancer tissue, human kidney tissue, human stomach cancer tissue

**IF :** U2OS cells,

## Background Information

Stanniocalcin (STC) is a family of secreted glycoprotein hormones that originally discovered in the corpuscles of Stannius, an endocrine gland of fish. STC1 and STC2, two homologues of STC family, are reported to involve in calcium and phosphate homeostasis. It is expressed in a wide variety of tissues such as kidney, spleen, heart, and pancreas. The protein may play a role in the regulation of renal and intestinal calcium and phosphate transport, cell metabolism, or cellular calcium/phosphate homeostasis. STC2 overexpression could promote tumor cell proliferation, invasion and metastasis in prostate cancer, ovarian cancer or neuroblastoma. STC2 is also vital for cytoprotective properties when exposed to ER stress and hypoxia.

## Notable Publications

Author	Pubmed ID	Journal	Application
Hiroki Ueda	29599123	Endocr Relat Cancer	IHC
Bo Hu	33741523	Genomics Proteomics Bioinformatics	IHC
Lei Shi	34155143	Proc Natl Acad Sci U S A	WB

## 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

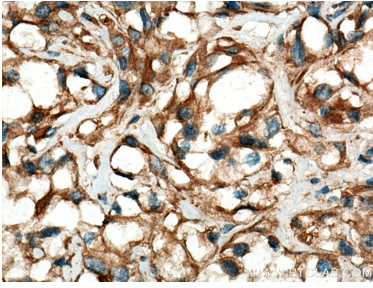
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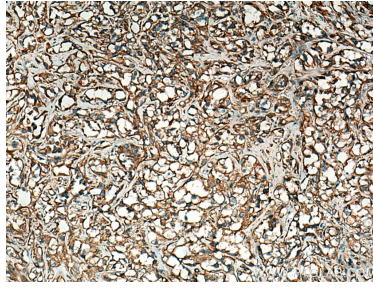
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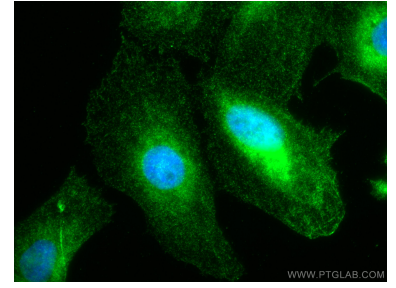
## Selected Validation Data



Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 10314-1-AP (Stanniocalcin 2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 10314-1-AP (Stanniocalcin 2 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed U2OS cells using Stanniocalcin 2 antibody (10314-1-AP) at dilution of 1:200 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).