

For Research Use Only

Stanniocalcin 2 Monoclonal antibody



Catalog Number: 60063-1-Ig

Featured Product

6 Publications

Basic Information

Catalog Number:

60063-1-Ig

Size:

2000 μ g/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG0359

GenBank Accession Number:

BC000658

GeneID (NCBI):

8614

UNIPROT ID:

O76061

Full Name:

stanniocalcin 2

Calculated MW:

33 kDa

Observed MW:

44 kDa

Purification Method:

Protein A purification

CloneNo.:

4H1E7

Recommended Dilutions:

WB 1:1000-1:6000

IHC 1:500-1:2000

IF 1:400-1:1600

Applications

Tested Applications:

IF/ICC, IHC, WB, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse, pig

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 : A549 cells, hTERT-RPE1 cells, T-47D cells, HEK-293 cells, HT-29 cells, HCT 116 cells, HepG2 cells, PC-3 cells, pig brain tissue

IHC : mouse kidney tissue, human breast cancer tissue, human kidney tissue, human stomach cancer tissue

IF : HeLa 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 |
|---------------|-----------|----------------------------|-------------|
| Bo Yu | 33774276 | Biochem Biophys Res Commun | IHC, WB |
| Menghua Cai | 30902679 | Neuroscience | WB |
| Zhixian WuJin | 35300206 | J Hepatocell Carcinoma | 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

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

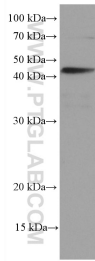
T: 4006900926

E: Proteintech-CN@ptglab.com

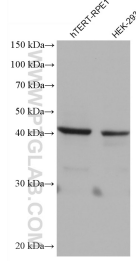
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

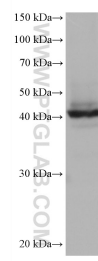
Selected Validation Data



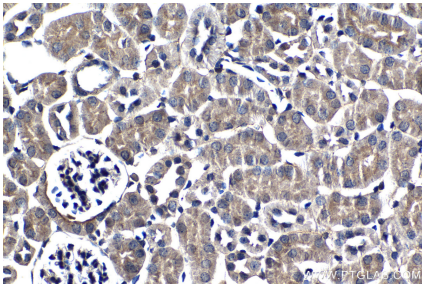
A549 cells were subjected to SDS PAGE followed by western blot with 60063-1-Ig (Stanniocalcin 2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



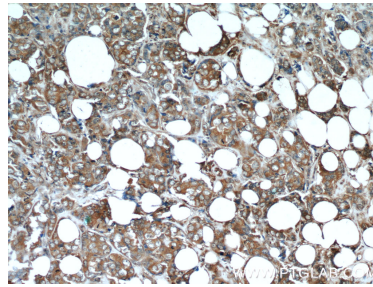
Various lysates were subjected to SDS PAGE followed by western blot with 60063-1-Ig (Stanniocalcin 2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



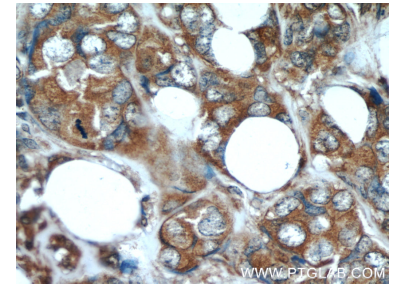
T-47D cells were subjected to SDS PAGE followed by western blot with 60063-1-Ig (Stanniocalcin 2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



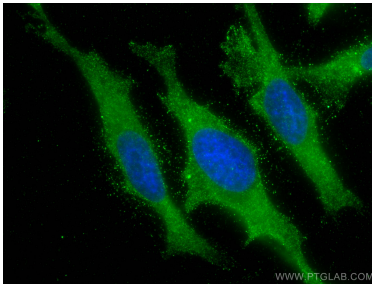
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue slide using 60063-1-Ig (Stanniocalcin 2 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



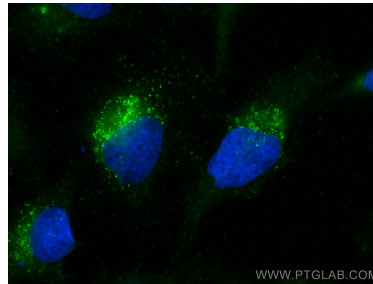
Immunohistochemical analysis of paraffin-embedded human breast cancer using 60063-1-Ig (Stanniocalcin 2 antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human breast cancer using 60063-1-Ig (Stanniocalcin 2 antibody) at dilution of 1:50 (under 40x lens).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using Stanniocalcin 2 antibody (60063-1-Ig, Clone: 4H1E7) at dilution of 1:500 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (-20°C Methanol) fixed HeLa cells using Stanniocalcin 2 antibody (60063-1-Ig, Clone: 4H1E7) at dilution of 1:800 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).