

For Research Use Only

SERCA3 Polyclonal antibody

Catalog Number: 13619-1-AP

2 Publications



Basic Information

Catalog Number:

13619-1-AP

Size:

150ul, Concentration: 300 µg/ml by Nanodrop and 233 µg/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG4527

GenBank Accession Number:

BC035729

GeneID (NCBI):

489

Full Name:

ATPase, Ca⁺⁺ transporting, ubiquitous

Calculated MW:

1043 aa, 114 kDa

Observed MW:

97-110 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:12000

IP 0.5-4.0 µg for IP and 1:500-1:1000

for WB

IHC 1:20-1:200

Applications

Tested Applications:

IHC, IP, WB, ELISA

Cited Applications:

WB

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 heart tissue, K-562 cells

IP : mouse skeletal muscle tissue,

IHC : human pancreas cancer tissue,

Background Information

The SERCA, which pumps cytosolic Ca²⁺ into the ER, is an imperative maintainer of ER Ca²⁺ homeostasis. The mammalian SERCA family is comprised of three tissue-specific members, SERCA1-3. SERCA3 is present in endothelial and epithelial cells of various tissues. SERCA3 helps regulate intracellular Ca²⁺, which is critical for maintaining normal INS secretion and is closely linked to metabolism, neuronal plasticity, gene transcription, cell growth, differentiation, apoptosis, protein folding and carcinogenesis. Several isoforms of SERCA3 exist due to the alternative splicing.

Notable Publications

Author	Pubmed ID	Journal	Application
Minmin Fan	36561988	Acta Pharm Sin B	WB
Hengjiang Guo	28066247	Front Pharmacol	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

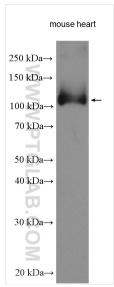
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

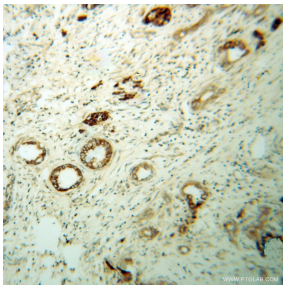
E: proteintech@ptglab.com
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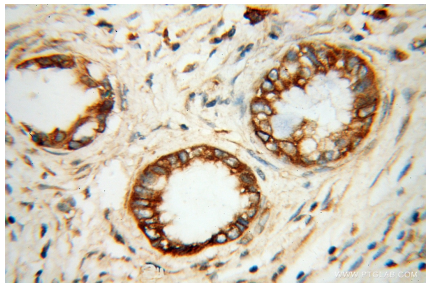
Selected Validation Data



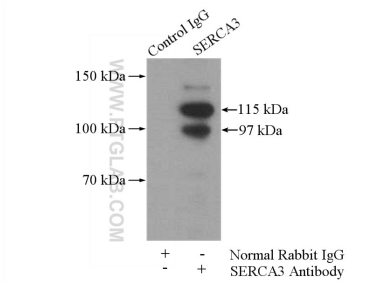
Mouse heart lysates were subjected to SDS PAGE followed by western blot with 13619-1-AP (SERCA3 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human pancreas cancer using 13619-1-AP (SERCA3 antibody) at dilution of 1:100 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human pancreas cancer using 13619-1-AP (SERCA3 antibody) at dilution of 1:100 (under 40x lens).



IP Result of anti-SERCA3 (IP:13619-1-AP, 4ug; Detection:13619-1-AP 1:500) with mouse skeletal muscle tissue lysate 3600ug.