

For Research Use Only

SLC7A11/xCT Polyclonal antibody

Catalog Number: 26864-1-AP

Featured Product

552 Publications



Basic Information

Catalog Number:

26864-1-AP

Concentration:

700 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG25431

GenBank Accession Number:

BC012087

GeneID (NCBI):

23657

UNIPROT ID:

Q9UPY5

Full Name:

solute carrier family 7, (cationic amino acid transporter, y+ system) member 11

Calculated MW:

55 kDa

Observed MW:

35-40 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:1000-1:4000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:50-1:500

Applications

Tested Applications:

WB, IHC, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP, RIP

Species Specificity:

human

Cited Species:

human, chicken, bovine, sheep, goat

Positive Controls:

WB: unboiled HeLa cells, unboiled HepG2 cells

IP: HeLa cells, A549 cells, HepG2 cells

IHC: human renal cell carcinoma tissue, human lung cancer tissue

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

SLC7A11 (also known as xCT) is a membrane transporter involved in the uptake of cystine. It promotes glutathione synthesis through the uptake of cystine and the concomitant release of glutamate. This, in turn, protects cells from oxidative stress, maintains cellular redox balance, and prevents cell death induced by lipid peroxidation. SLC7A11 has been identified as a potential target for cancer therapeutics. It is overexpressed in multiple malignant tumors and is closely associated with the growth, prognosis, metastasis, and treatment response of various cancers including lung cancer. The SLC7A11 protein appears at two molecular weights, 55 kDa and 35 kDa, and the 55 kDa protein is ubiquitinated (PMID: 32188872). 26864-1-AP recognizes the 35-40 kDa protein similar to the paper published (PMID: 36747082).

Notable Publications

Author	Pubmed ID	Journal	Application
Yanan Zhao	36166594	J Agric Food Chem	WB
Ben Li	36290297	Biology (Basel)	WB
Shiao Tong	36156371	Transl Oncol	WB

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:

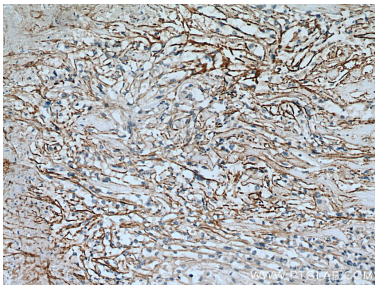
T: 4006900926

E: Proteintech-CN@ptglab.com

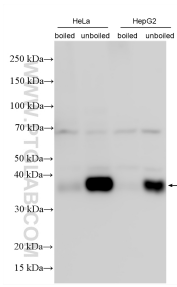
W: ptgcn.com

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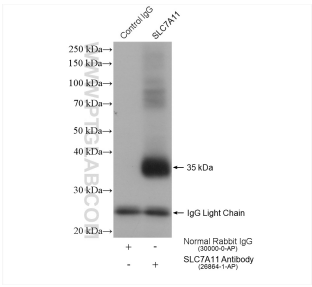
Selected Validation Data



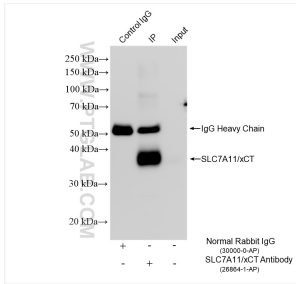
Immunohistochemical analysis of paraffin-embedded human renal cell carcinoma tissue slide using 26864-1-AP (SLC7A11/xCT antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



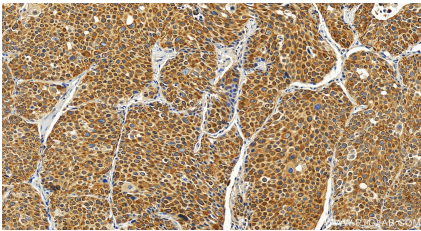
Various lysates were subjected to SDS PAGE followed by western blot with 26864-1-AP (SLC7A11/xCT antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-SLC7A11/xCT (IP:26864-1-AP, 4ug; Detection:26864-1-AP 1:800) with HepG2 cells lysate 1720 ug.



IP result of anti-SLC7A11/xCT (IP:26864-1-AP, 4ug; Detection:26864-1-AP 1:3000) with HeLa cells lysate 1280 ug.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 26864-1-AP (SLC7A11/xCT antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).