

For Research Use Only

# SLC7A11/xCT Recombinant monoclonal antibody

Catalog Number: 82115-3-RR



## Basic Information

Catalog Number:

82115-3-RR

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:

Protein A purification

CloneNo.:

252789G7

Recommended Dilutions:

WB: 1:5000-1:50000

IF/ICC: 1:200-1:800

## Applications

Tested Applications:

WB, IF/ICC, ELISA

Species Specificity:

human, mouse

Positive Controls:

WB: unboiled HeLa cells, unboiled mouse brain tissue

IF/ICC: HepG2 cells,

## 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). 82115-3-RR recognizes the 35-40 kDa protein similar to the paper published (PMID: 36747082).

## 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:

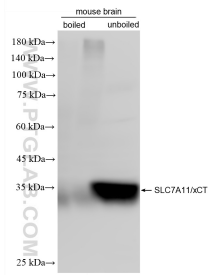
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

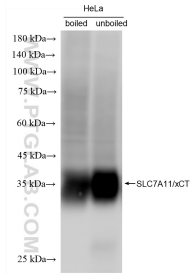
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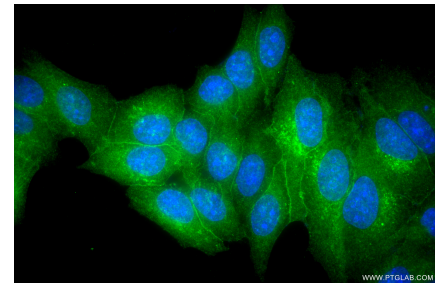
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 82115-3-RR (SLC7A11 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



unboiled HeLa cells were subjected to SDS PAGE followed by western blot with 82115-3-RR (SLC7A11/xCT antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Methanol) fixed HepG2 cells using SLC7A11/xCT antibody (82115-3-RR, Clone: 252789G7) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).