

For Research Use Only

# SLC7A11/xCT Recombinant antibody

Catalog Number: 82115-2-RR

1 Publications



## Basic Information

Catalog Number:

82115-2-RR

Concentration:

1000 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

Purification Method:

Protein A purification

CloneNo.:

230227C5

Recommended Dilutions:

IF/ICC 1:125-1:500

## Applications

Tested Applications:

IF/ICC, FC (Intra), ELISA

Cited Applications:

WB

Species Specificity:

human

Cited Species:

human

Positive Controls:

IF/ICC : A549 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Haishui Zheng	39434887	Front Immunol	WB

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol

Aliquoting is unnecessary for -20°C storage

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

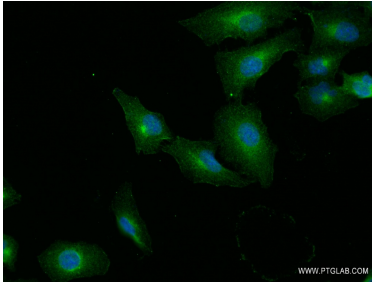
T: 4006900926

E: Proteintech-CN@ptglab.com

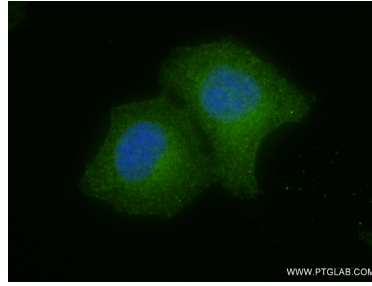
W: ptgcn.com

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

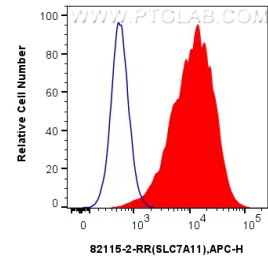
## Selected Validation Data



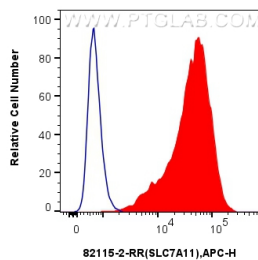
Immunofluorescent analysis of (4% PFA) fixed A549 cells using SLC7A11 antibody (82115-2-RR, Clone: 230227C5 ) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunofluorescent analysis of (4% PFA) fixed A549 cells using SLC7A11 antibody (82115-2-RR, Clone: 230227C5 ) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



1x10<sup>6</sup> HeLa cells were intracellularly stained with 0.25 ug Anti-Human SLC7A11 (82115-2-RR, Clone:230227C5) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



1x10<sup>6</sup> A549 cells were intracellularly stained with 0.25 ug Anti-Human SLC7A11 (82115-2-RR, Clone:230227C5) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).