

For Research Use Only

# SLC7A11/xCT Recombinant antibody



Catalog Number: 82115-2-RR

## Basic Information

<b>Catalog Number:</b> 82115-2-RR	<b>GenBank Accession Number:</b> BC012087	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 23657	<b>CloneNo.:</b> 230227C5
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9UPY5	<b>Recommended Dilutions:</b> IF 1:125-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> solute carrier family 7, (cationic amino acid transporter, y+ system) member 11	
<b>Immunogen Catalog Number:</b> AG25431	<b>Calculated MW:</b> 55 kDa	

## Applications

<b>Tested Applications:</b> IF, FC, ELISA	<b>Positive Controls:</b> IF : A549 cells,
<b>Species Specificity:</b> Human	

## 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.

## 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

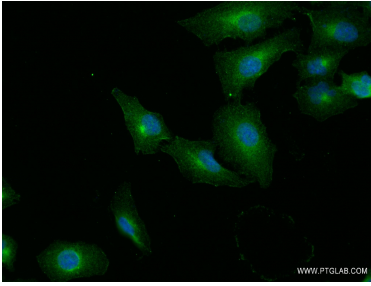
For technical support and original validation data for this product please contact:

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

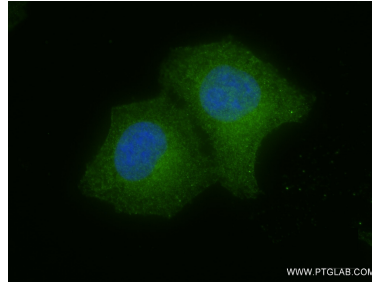
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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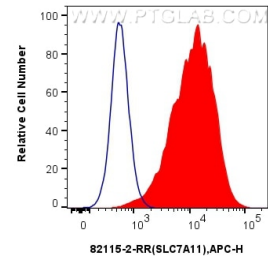
## Selected Validation Data



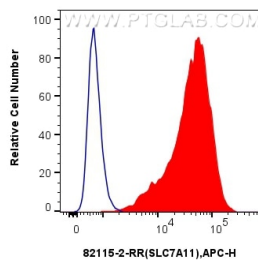
Immunofluorescent analysis of (4% PFA) fixed A549 cells using SLC7A11 antibody (82115-2-RR, Clone: 230227C5) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



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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).



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