

For Research Use Only

SLC7A11/xCT Recombinant antibody

Catalog Number: 82115-2-RR

1 Publications



Basic Information

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

Applications

Tested Applications: IF/ICC, FC (Intra), ELISA	Positive Controls: IF/ICC : A549 cells,
Cited Applications: WB	
Species Specificity: human	
Cited Species: 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.

Notable Publications

Author	Pubmed ID	Journal	Application
Haishui Zheng	39434887	Front Immunol	WB

Storage

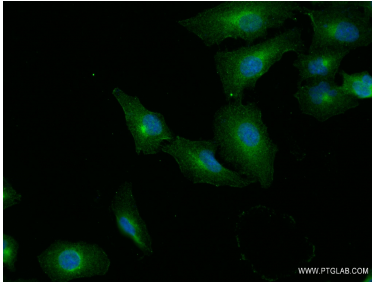
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

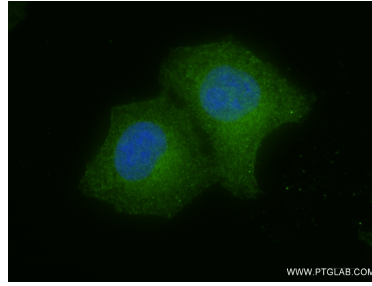
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

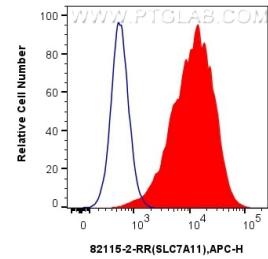
Selected Validation Data



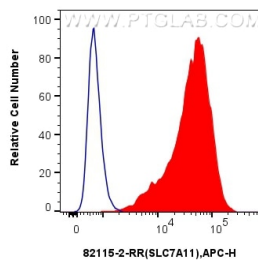
Immunofluorescent analysis of (4% PFA) fixed A549 cells using SLC7A11 antibody (82115-2-RR, Clone: 230227C5) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



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1x10⁶ 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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