

For Research Use Only

SLC7A11/xCT Recombinant monoclonal antibody

Catalog Number: 82115-3-RR



Basic Information

Catalog Number: 82115-3-RR	GenBank Accession Number: BC012087	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 23657	CloneNo.: 252789G7
Source: Rabbit	UNIPROT ID: Q9UPY5	Recommended Dilutions: WB: 1:5000-1:50000 IF/ICC: 1:200-1:800
Isotype: IgG	Full Name: solute carrier family 7, (cationic amino acid transporter, y+ system) member 11	
Immunogen Catalog Number: AG25431	Calculated MW: 55 kDa	
	Observed MW: 35-40 kDa	

Applications

Tested Applications: WB, IF/ICC, ELISA	Positive Controls: WB : unboiled HeLa cells, unboiled mouse brain tissue
Species Specificity: human, mouse	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

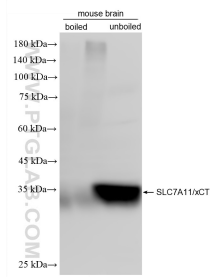
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

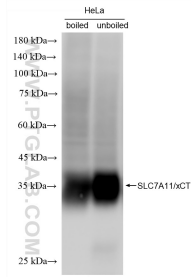
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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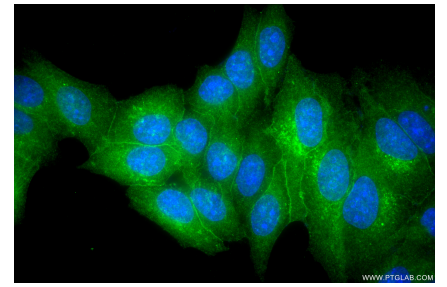
Selected Validation Data



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).