

Datasheet for ABIN6655336  
**anti-SLC7A11 antibody**



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## Overview

Quantity:	100 µg
Target:	SLC7A11
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SLC7A11 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Flow Cytometry (FACS), Immunofluorescence (IF), Immunoprecipitation (IP), Fluorescence Microscopy (FM)

## Product Details

Purpose:	xCT Antibody
Immunogen:	Anti-xCT antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal portion of human xCT conjugated to Keyhole Limpet Hemocyanin (KLH).
Isotype:	IgG
Cross-Reactivity (Details):	This affinity purified antibody is directed against human xCT.
Purification:	This product was affinity purified from monospecific antiserum by immunoaffinity purification.
Sterility:	Sterile filtered

## Target Details

Target:	SLC7A11
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## Target Details

Alternative Name: xCT ([SLC7A11 Products](#))

Background: Synonyms: rabbit anti-xCT antibody, SLC7A11, Cystine/glutamate transporter, Amino acid transport system xc-, Calcium channel blocker resistance protein CCBR1, Solute carrier family 7 member 11

Background: xCT belongs to the amino acid-polyamine-organocation (APC) superfamily and L-type amino acid transporter (LAT) family. xCT gene encodes a member of a heteromeric, sodium-independent, anionic amino acid transport system that is highly specific for cysteine and glutamate. In this system, designated Xc(-), the anionic form of cysteine is transported in exchange for glutamate. Increased expression of this gene results in neuronal cell death. xCT may be associated with kaposi sarcoma, dyscalculia, cystinuria, spondylolysis, and anemia of prematurity. Anti-xCT Antibody is useful for researchers interested in Cancer Research, Glucose/Energy Metabolism Research, and Cell Surface Protein Interaction Research.

Gene Name: SLC7A11

Gene ID: 23657

NCBI Accession: [NP\\_055146](#)

UniProt: [Q9UPY5](#)

## Application Details

Application Notes: Immunoprecipitation\_Dilution: User Optimized

ELISA\_Dilution: 5.0 µg/mL

Immunohistochemistry\_Dilution: 1:200

Flow\_Cytometry\_Dilution: 1:200

IF\_Microscopy\_Dilution: 10 µg/mL

Western\_Blot\_Dilution: 1:1000

Comment: Anti-xCT Antibody has been tested in Western Blot, ELISA, Immunofluorescence and Flow cytometry. Expect a band at 55.4 kDa in western blot using appropriate lysates. Positive control used NIH-3T3, Hela, HCT-116, A549, or PC3 whole cell lysates at 0.1-1.0µg/mL for WB and PC3 with MeOH at 10µg/mL in IF. Although not tested, this antibody is likely functional in immunohistochemistry and immunoprecipitation.

Restrictions: For Research Use only

## Handling

Format: Liquid

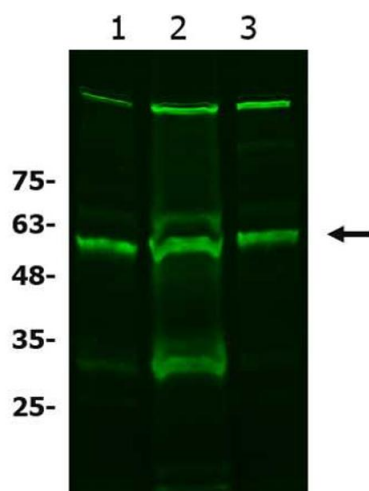
## Handling

Buffer:	Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: None Preservative: 0.01 % (w/v) Sodium Azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiry Date:	12 months

## Publications

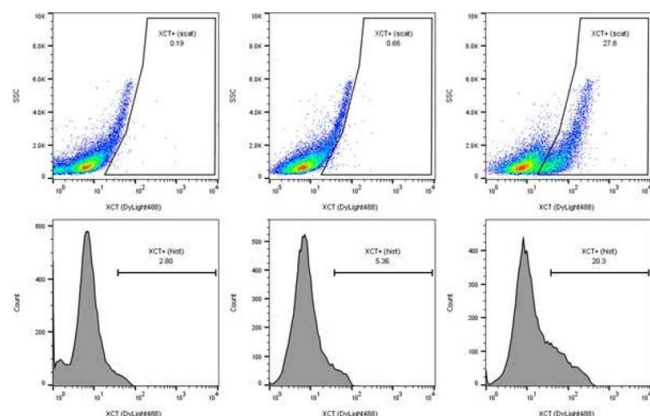
Product cited in:	Tamiya, Urushihara, Shizuma, Ogawa, Nakai, Wakamatsu, Takenaka, Kakunaga: "SHARPIN Enhances Ferroptosis in Synovial Sarcoma Cells via NF-κB- and PRMT5-Mediated PGC1α Reduction." in: <b>Cancers</b> , Vol. 15, Issue 13, (2023) ( <a href="#">PubMed</a> ).
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## Images



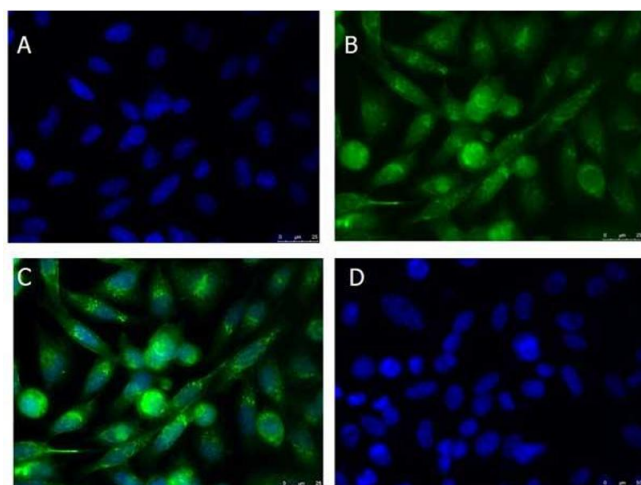
### Western Blotting

**Image 1.** Western Blot of Rabbit anti-xCT antibody Western Blot of Rabbit anti-xCT antibody. Lane 1: A549 WCL . Lane 2: HCT-116 WCL . Lane 3: HeLa WCL . Load: 10 µg per lane. Primary antibody: xCT antibody at 1:1000 for overnight at 4°C. Secondary antibody: donkey anti-rabbit secondary488 antibody at 1:20,000 for one hour at RT. Block: BlockOut blocking buffer one hour at RT. Predicted/Observed size: 56 kda. Other band(s): xCT processing caused by dimerization, glycosylation, and/or phosphorylation.



### Flow Cytometry

**Image 2.** Flow Cytometry of rabbit anti-xCT antibody. Flow Cytometry of rabbit anti-xCT antibody. Cells: breast carcinoma cells. Primary antibody: xCT antibody at 1.0 µg/mL for one hour at 4°C. Secondary antibody: Donkey anti-Rabbit IgG488 Antibody p/n at 1 µg/mL in 200 µl for one hour on ice.



### Immunofluorescence

**Image 3.** Immunofluorescence Microscopy of Rabbit anti-xCT antibody. Immunofluorescence Microscopy of Rabbit anti-xCT antibody. Tissue: PC3 cells. Fixation: 100% MeOH. Antigen retrieval: not required. Primary antibody: xCT antibody at 10 µg/mL overnight at 4°C. Secondary antibody: Donkey Anti-Rabbit IgG 488 at 5 µg/mL for 2 h at RT. Localization: xCT is localized on the cell membrane and vesicles. Staining: xCT as green fluorescent signal with DAPI (blue) nuclear counterstain.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6655336.