

Datasheet for ABIN6655337
anti-SLC7A11 antibody



[Go to Product page](#)

4 Images

1 Publication

Overview

Quantity:	25 µL
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
---------	---------

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 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 HeLa, NIH-3T3, A549, HCT-116, 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

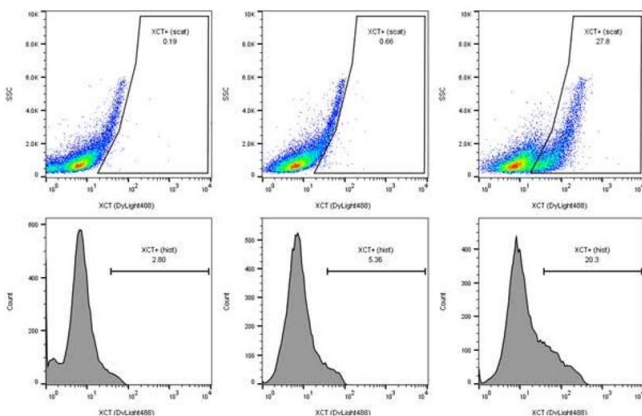
Handling

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:	-20 °C
Storage Comment:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Expiry Date:	12 months

Publications

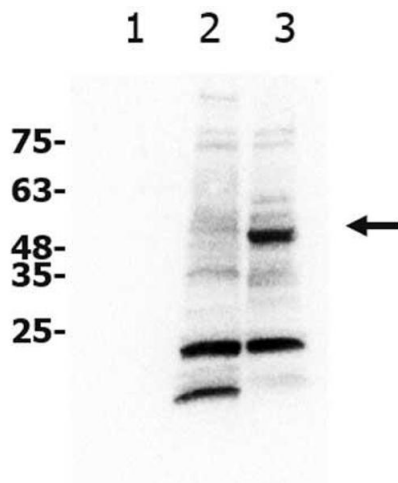
Product cited in:	Tamiya, Urushihara, Shizuma, Ogawa, Nakai, Wakamatsu, Takenaka, Kakunaga: "SHARPIN Enhances Ferroptosis in Synovial Sarcoma Cells via NF-κB- and PRMT5-Mediated PGC1α Reduction." in: Cancers , Vol. 15, Issue 13, (2023) (PubMed).
-------------------	--

Images



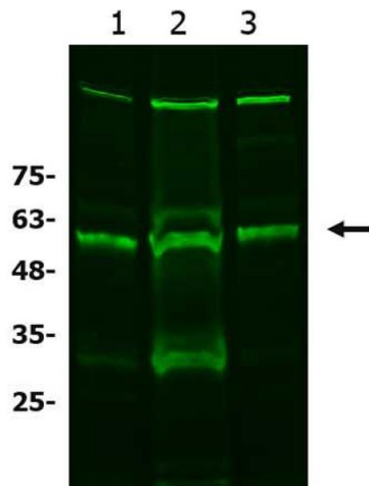
Flow Cytometry

Image 1. 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.



Western Blotting

Image 2. Western Blot of Rabbit anti-xCT antibody Western Blot of Rabbit anti-xCT antibody. Lane 1: recombinant BCL3 (unrelated negative control). Lane 2: NIH 3T3 WCL . Lane 3: A549 WCL . Load: 10 µg per lane. Primary antibody: xCT antibody at 1:1000 for overnight at 4°C. Secondary antibody: goat anti-rabbit secondary HRP antibody at 1:20,000 for one hour at RT. Block: 5% BSA blocking buffer one hour at RT. Predicted/Observed size: 56 kda. Other band(s): xCT processing caused by dimerization, glycosylation, and/or phosphorylation.



Western Blotting

Image 3. 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.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6655337.