ARG57998
anti-SLC7A11 / xCT antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes SLC7A11 / xCT
Tested Reactivity	Hu, Ms, Rat
Tested Application	IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	SLC7A11 / xCT
Species	Human
Immunogen	Synthetic peptide derived from Human SLC7A11 / xCT.
Conjugation	Un-conjugated
Alternate Names	xCT; CCBR1; Cystine/glutamate transporter; Solute carrier family 7 member 11; Amino acid transport system xc-; Calcium channel blocker resistance protein CCBR1

Application Instructions

Application table

Application	Dilution
IP	1:50
WB	1:500 - 1:2000

Application Note: Note: Based on the reference PMID: 35322867 This antibody may also suitable for ICC/IF application in human samples.
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Observed Size: ~ 60 kDa

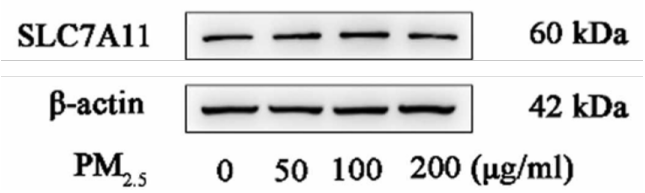
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.4), 150mM NaCl, 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	SLC7A11
Gene Full Name	solute carrier family 7 (anionic amino acid transporter light chain, xc- system), member 11
Background	This 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. This protein has been identified as the predominant mediator of Kaposi sarcoma-associated herpesvirus fusion and entry permissiveness into cells. Also, increased expression of this gene in primary gliomas (compared to normal brain tissue) was associated with increased glutamate secretion via the XCT channels, resulting in neuronal cell death. [provided by RefSeq, Sep 2011]
Function	Sodium-independent, high-affinity exchange of anionic amino acids with high specificity for anionic form of cystine and glutamate. [UniProt]
Highlight	Related news: Ferroptosis/Oxytosis Antibody Panel is launched; Therapeutic strategies against PDAC; Disulfidptosis markers; Related Antibody Duos and Panels: ARG30337 Ferroptosis / Oxytosis Antibody Panel Related products: SLC7A11 antibodies; SLC7A11 Duos / Panels; Anti-Rabbit IgG secondary antibodies;
Research Area	Ferroptosis/Oxytosis Study antibody
Calculated Mw	55 kDa

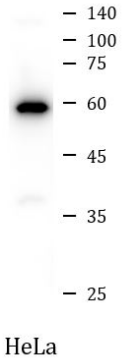
Images



ARG57998 anti-SLC7A11 / xCT antibody WB image

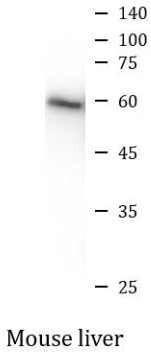
Western blot: Mouse Testis stained with ARG57998 anti-SLC7A11 / xCT antibody at 1:1000 dilution.

From Lipeng Li et al. Ecotoxicol Environ Saf (2023), doi: 10.1016/j.ecoenv.2023.115309, Fig. 2F1.



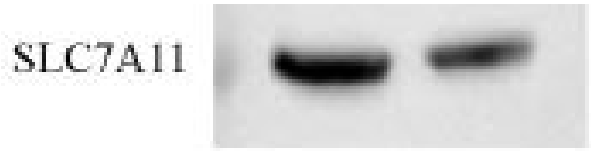
ARG57998 anti-SLC7A11 / xCT antibody WB image

Western blot: 20 μg of HeLa cell lysate stained with ARG57998 anti-SLC7A11 / xCT antibody at 1:1000 dilution.



ARG57998 anti-SLC7A11 / xCT antibody WB image

Western blot: 20 µg of Mouse liver lysate stained with ARG57998 anti-SLC7A11 / xCT antibody at 1:1000 dilution.



ARG57998 anti-SLC7A11 / xCT antibody WB image

Western blot: GBC-SD cells stained with ARG57998 anti-SLC7A11 / xCT antibody.

From Desen Fan et al. Heliyon (2024), doi: 10.1016/j.heliyon.2024.e30260, Fig. 2. E.