

Anti-CAT1 Antibody

Catalog # ABO11555

Specification

Anti-CAT1 Antibody - Product Information

Application WB
Primary Accession P30825
Host Reactivity Human
Clonality Polyclonal
Format Lyophilized

Description

Rabbit IgG polyclonal antibody for High affinity cationic amino acid transporter 1(SLC7A1) detection. Tested with WB in Human.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-CAT1 Antibody - Additional Information

Gene ID 6541

Other Names

High affinity cationic amino acid transporter 1, CAT-1, CAT1, Ecotropic retroviral leukemia receptor homolog, Ecotropic retrovirus receptor homolog, ERR, Solute carrier family 7 member 1, System Y+ basic amino acid transporter, SLC7A1, ATRC1, ERR, REC1L

Calculated MW 67638 MW KDa

Application Details

Western blot, 0.1-0.5 μg/ml, Human

Subcellular Localization

Cell membrane; Multi-pass membrane protein.

Tissue Specificity

Ubiquitous. .

Protein Name

High affinity cationic amino acid transporter 1

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human CAT1(613-629aa LDADQARTPDGNLDQCK), different from the related mouse and rat sequences by four amino acids.



PurificationImmunogen affinity purified.

Cross ReactivityNo cross reactivity with other proteins

Storage

At -20°C for one year. After r°Constitution, at 4°C for one month. It°Can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-CAT1 Antibody - Protein Information

Name SLC7A1 (<u>HGNC:11057</u>)

Function

High-affinity, low capacity permease involved in the transport of the cationic amino acids (arginine, lysine and ornithine) in non-hepatic tissues.

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:Q09143}; Multi-pass membrane protein

Tissue Location Ubiquitous..

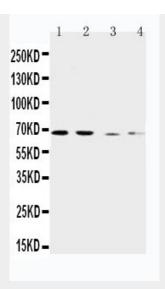
Anti-CAT1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-CAT1 Antibody - Images





Anti-CAT1 antibody, ABO11555, Western blottingLane 1: Human Placenta Tissue LysateLane 2: HELA Cell LysateLane 3: SKOV-3 Cell LysateLane 4: HT1080 Cell Lysate

Anti-CAT1 Antibody - Background

High affinity cationic amino acid transporter 1, also called solute carrier family 7(cationic amino acid transporter, y+ system), member 1(SLC7A1) or ATRC1 is a protein that in humans is encoded by the SLC7A1 gene. This gene is mapped to 13q12.3. It acts as a cationic amino acid transporter and as an ecotropic retrovirus receptor and plays a role in the Na+-independent y+ cationic amino acid transport system. This gene is high-affinity, low capacity permease involved in the transport of the cationic amino acids(arginine, lysine and ornithine) in non-hepatic tissues.