

Anti-CAT1 Antibody

Catalog # ABO11555

Product Information

Application	WB
Primary Accession	P30825
Host	Rabbit
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.

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
Application Details	Western blot, 0.1-0.5 µg/ml, Human
Subcellular Localization	Cell membrane ; Multi-pass membrane protein .
Tissue Specificity	Ubiquitous. .
Source	Eukaryota
Protein Name	High affinity cationic amino acid transporter 1
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
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.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage At -20 °C for one year. After reconstitution, 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.

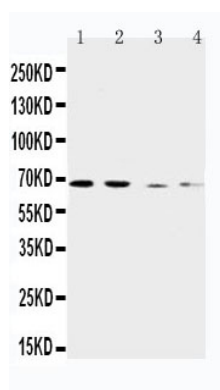
Protein Information

Name	SLC7A1 (HGNC:11057)
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..

Background

High affinity cationic amino acid transporter 1, also called solute carrier family 7 (cationic amino acid transporter, γ^+ 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 γ^+ 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.

Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.