

Recombinant Human SLC7A1 293 Cell Lysate

Cat. No. SLC7A1-1700HCL Lot. No. (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for solute carrier family 7 (cationic amino acid transporter, y ⁺ system), member 1 (SLC7A1) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

SLC7A1 solute carrier family 7 (cationic amino acid transporter, y+ system), member 1 [Homo sapiens]

Official Symbol

SLC7A1

Synonyms

SLC7A1; solute carrier family 7 (cationic amino acid transporter, y+ system), member 1; ATRC1, ERR; high affinity cationic amino acid transporter 1; amino acid transporter; cationic 1; CAT 1; ecotropic retroviral receptor; HCAT1; REC1L; CAT1; solute carrier family 7 member 1; amino acid transporter, cationic 1; ecotropic retrovirus receptor homolog; system Y+ basic amino acid transporter; ecotropic retroviral leukemia receptor homolog; ERR; ATRC1; CAT-1;

Gene ID

6541

mRNA Refseq

NM_003045

Protein Refseq

NP_003036

MIM

104615

UniProt ID

P30825

**Chromosome
Location**

13q12-q14

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Pathway

Amino acid transport across the plasma membrane, organism-specific biosystem;
SLC-mediated transmembrane transport, organism-specific biosystem;
Transmembrane transport of small molecules, organism-specific biosystem; Transport
of inorganic cations/anions and amino acids/oligopeptides, organism-specific
biosystem;

Function

amino acid transmembrane transporter activity; arginine transmembrane transporter
activity; receptor activity;

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