

## Recombinant Human SLC7A1 293 Cell Lysate

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

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	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.
<b>Components</b>	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).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	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.
<b>Applications</b>	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

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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

**Pathway** Amino acid transport across the plasma membrane, organism-specific biosystem; SLC-mediated transmembrane transport, organism-specific biosystem;

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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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