

## Recombinant Human SLC7A5 Over-expression cell lysate

Cat. No. SLC7A5-4893HCL Lot. No. (See product label)

### SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Human SLC7A5 Over-expression cell lysate was derived from Human HEK293T cell line.   |
| <b>Species</b>          | Human  |
| <b>Source</b>           | HEK293   |
| <b>Description</b>      | SLC7A5 played an important role in many functions.   |
| <b>Form</b>             | The cell lysate is provided in RIPA buffer(25mM Tris-HCl pH7.6, 150mM NaCl, 1% NP-40, 1mM EDTA, 1xProteinase inhibitor cocktail mix (Sigma), 1mM PMSF and 1mM Na3VO4).   |
| <b>Molecular Mass</b>   | 54.8 kDa   |
| <b>Usage</b>            | 1 vial of 100 g gene specific transient over-expression cell lysate in RIPA buffer<br>1 vial of 100 g empty vector transfected control cell lysate in RIPA buffer<br>1 vial of 250ul 2xSDS Sample Buffer (4% SDS, 125mM Tris-HCl pH6.8, 10% Glycerol, 0.002% Bromphenol blue, 100mM DTT)   |
| <b>Storage</b>          | The lysate is shipped with dry ice. Upon receiving, store the sample at -20 centigrade. Lysate samples are stable for 12 months from date of receipt when stored at -20 centigrade. Avoid repeated freeze-thaw cycles.<br><br>Lysate samples can be diluted with 2xSDS Sample Buffer provided. After dilution, the protein sample should be aliquoted and stored at -20 centigrade for long term |

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storage. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.

## GENE INFORMATION

|                            |   |
|----------------------------|---|
| <b>Gene Name</b>           | SLC7A5 solute carrier family 7 (amino acid transporter light chain, L system), member 5 [ Homo sapiens ]  |
| <b>Official Symbol</b>     | SLC7A5  |
| <b>Synonyms</b>            | SLC7A5; solute carrier family 7 (amino acid transporter light chain, L system), member 5; large neutral amino acids transporter small subunit 1; CD98; D16S469E; E16; LAT1; MPE16; 4F2 LC; 4F2 light chain; CD98 light chain; integral membrane protein E16; L-type amino acid transporter 1; solute carrier family 7 member 5; large neutral amino acids transporter 1; y+ system cationic amino acid transporter; sodium-independent neutral amino acid transporter LAT1; solute carrier family 7 (cationic amino acid transporter, y+ system), member 5; 4F2LC; hLAT1; |
| <b>Gene ID</b>             | 8140  |
| <b>mRNA Refseq</b>         | NM_003486   |
| <b>Protein Refseq</b>      | NP_003477   |
| <b>MIM</b>                 | 600182  |
| <b>UniProt ID</b>          | Q01650  |
| <b>Chromosome Location</b> | 16q24.3   |
| <b>Pathway</b>             | Amino acid transport across the plasma membrane, organism-specific biosystem;   |

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Basigin interactions, organism-specific biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem; Hemostasis, 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**

L-amino acid transmembrane transporter activity; amino acid transmembrane transporter activity; neutral amino acid transmembrane transporter activity; peptide antigen binding;

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