

## Recombinant Human SLC36A1 293 Cell Lysate

**Cat. No.** SLC36A1-1728HCL    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>              | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>         | Antigen standard for solute carrier family 36 (proton/amino acid symporter), member 1 (SLC36A1) 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.                                                                                                                                                                                                                                                                   |

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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**

SLC36A1 solute carrier family 36 (proton/amino acid symporter), member 1 [ Homo sapiens ]

**Official Symbol**

SLC36A1

**Synonyms**

SLC36A1; solute carrier family 36 (proton/amino acid symporter), member 1; proton-coupled amino acid transporter 1; LYAAT 1; PAT1; TRAMD3; hPAT1; proton/amino acid transporter 1; solute carrier family 36 member 1; lysosomal amino acid transporter 1; Dct1; LYAAT1;

**Gene ID**

206358

**mRNA Refseq**

NM\_078483

**Protein Refseq**

NP\_510968

**MIM**

606561

**UniProt ID**

Q7Z2H8

**Chromosome Location**

5q33.1

**Pathway**

Amino acid transport across the plasma membrane, organism-specific biosystem; Protein digestion and absorption, organism-specific biosystem; Protein digestion and

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absorption, conserved biosystem; Proton-coupled neutral amino acid transporters, 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;

|                 |                     |
|-----------------|---------------------|
| <b>Function</b> | symporter activity; |
|-----------------|---------------------|

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