

Recombinant Human SLC31A1 293 Cell Lysate

Cat. No. SLC31A1-1736HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for solute carrier family 31 (copper transporters), member 1 (SLC31A1) 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 [SLC31A1 solute carrier family 31 \(copper transporters\), member 1 \[Homo sapiens \]](#)

Official Symbol SLC31A1

Synonyms

SLC31A1; solute carrier family 31 (copper transporters), member 1; COPT1; high affinity copper uptake protein 1; copper transport 1 homolog (S. cerevisiae); CTR1; hCTR1; copper transporter 1; copper transport 1 homolog; solute carrier family 31 member 1; MGC75487;

Gene ID [1317](#)

mRNA Refseq [NM_001859](#)

Protein Refseq [NP_001850](#)

MIM [603085](#)

UniProt ID [O15431](#)

Chromosome Location 9q32

Pathway

Metal ion SLC transporters, organism-specific biosystem; Mineral absorption, organism-specific biosystem; Mineral absorption, conserved biosystem; SLC-mediated transmembrane transport, organism-specific biosystem; Transmembrane

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transport of small molecules, organism-specific biosystem; Transport of glucose and other sugars, bile salts and organic acids, metal ions and amine compounds, organism-specific biosystem;

Function

copper ion transmembrane transporter activity;

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