Recombinant Human SLC1A4 293 Cell Lysate

Cat. No. SLC1A4-1798HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for solute carrier family 1 (glutamate/neutral amino acid transporter), member 4 (SLC1A4), transcript variant 1 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	SLC1A4 solute carrier family 1 (glutamate/neutral amino acid transporter), member 4 [Homo sapiens]
Official Symbol	SLC1A4
Synonyms	SLC1A4; solute carrier family 1 (glutamate/neutral amino acid transporter), member 4; neutral amino acid transporter A; alanine/serine/cysteine/threonine transporter; ASCT1; SATT; ASCT-1; solute carrier family 1 member 4; glutamate/neutral amino acid transporter; alanine/serine/cysteine/threonine transporter 1;
Gene ID	6509
mRNA Refseq	NM_001193493
Protein Refseq	NP_001180422
MIM	600229
UniProt ID	P43007
Chromosome Location	2p15-p13
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	L-alanine transmembrane transporter activity; L-cystine transmembrane transporter activity; NOT L-cystine transmembrane transporter activity; L-glutamine transmembrane transporter activity; L-hydroxyproline transmembrane transporter activity; L-proline transmembrane transporter activity; L-serine transmembrane transporter activity; L-threonine transmembrane transporter activity; chloride channel activity; sodium:dicarboxylate symporter activity; symporter activity;

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