

Recombinant Human SLC16A1 293 Cell Lysate

Cat. No. SLC16A1-1802HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for solute carrier family 16, member 1 (monocarboxylic acid transporter 1) (SLC16A1), 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.
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

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name	SLC16A1 solute carrier family 16, member 1 (monocarboxylic acid transporter 1) [Homo sapiens]
Official Symbol	SLC16A1
Synonyms	SLC16A1; solute carrier family 16, member 1 (monocarboxylic acid transporter 1); solute carrier family 16 (monocarboxylic acid transporters), member 1; monocarboxylate transporter 1; MCT; MCT1; MCT 1; solute carrier family 16 member 1; HHF7; FLJ36745; MGC44475;
Gene ID	6566
mRNA Refseq	NM_001166496
Protein Refseq	NP_001159968
MIM	600682
UniProt ID	P53985
Chromosome Location	1p12
Pathway	Basigin interactions, organism-specific biosystem; Cell surface interactions at the vascular wall, organism-specific biosystem; Hemostasis, organism-specific biosystem; Metabolism, organism-specific biosystem; Proton-coupled monocarboxylate transport, organism-specific biosystem; Pyruvate metabolism, organism-specific biosystem;

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Pyruvate metabolism and Citric Acid (TCA) cycle, organism-specific biosystem;

Function

mevalonate transmembrane transporter activity; monocarboxylic acid transmembrane transporter activity; secondary active monocarboxylate transmembrane transporter activity; symporter activity;

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