

Recombinant Human SLC12A5 293 Cell Lysate

Cat. No. SLC12A5-1805HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for solute carrier family 12 (potassium-chloride transporter), member 5 (SLC12A5), transcript variant 2 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

SLC12A5 solute carrier family 12 (potassium/chloride transporter), member 5 [Homo sapiens]

Official Symbol

SLC12A5

Synonyms

SLC12A5; solute carrier family 12 (potassium/chloride transporter), member 5; solute carrier family 12 member 5; KCC2; KIAA1176; hKCC2; K-Cl cotransporter 2; neuronal K-Cl cotransporter; erythroid K-Cl cotransporter 2; electroneutral potassium-chloride cotransporter 2;

Gene ID

57468

mRNA Refseq

NM_001134771

Protein Refseq

NP_001128243

MIM

606726

UniProt ID

Q9H2X9

**Chromosome
Location**

20q13.12

Pathway

Cation-coupled Chloride cotransporters, organism-specific biosystem; GABAergic synapse, organism-specific biosystem; GABAergic synapse, conserved biosystem;

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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

ammonia transmembrane transporter activity; potassium:chloride symporter activity;
symporter activity; transporter activity;

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