

Recombinant Human SLC12A5 293 Cell Lysate

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

SPECIFICATION

| | |
|----------------------------|---|
| 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. |
| 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

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|----------------------------|--|
| 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; SLC-mediated transmembrane transport, organism-specific biosystem; Transmembrane transport of small molecules, organism-specific biosystem; Transport |

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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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