

## Recombinant Human GJA1 293 Cell Lysate

**Cat. No.** GJA1-5923HCL    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>              | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>         | Antigen standard for gap junction protein, alpha 1, 43kDa (GJA1) 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.                                                                                                        |
| <b>Components</b>          | 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). |
| <b>Size</b>                | 0.1 mg                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage Instruction</b> | 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**

GJA1 gap junction protein, alpha 1, 43kDa [ Homo sapiens ]

**Official Symbol**

GJA1

**Synonyms**

GJA1; gap junction protein, alpha 1, 43kDa; gap junction protein, alpha 1, 43kDa (connexin 43) , gap junction protein, alpha like , GJAL, ODDD; gap junction alpha-1 protein; connexin 43; CX43; oculodentodigital dysplasia (syndactyly type III); ODD; ODOB; SDTY3; connexin-43; gap junction 43 kDa heart protein; HSS; GJAL; ODDD; AVSD3; HLHS1; DFNB38;

**Gene ID**

2697

**mRNA Refseq**

NM\_000165

**Protein Refseq**

NP\_000156

**MIM**

121014

**UniProt ID**

P17302

**Chromosome Location**

6q22-q23

**Pathway**

Arrhythmogenic right ventricular cardiomyopathy (ARVC), organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), conserved

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biosystem; Calcium Regulation in the Cardiac Cell, organism-specific biosystem; EGFR1 Signaling Pathway, organism-specific biosystem; Formation of annular gap junctions, organism-specific biosystem; Gap junction, organism-specific biosystem; Gap junction, conserved biosystem;

**Function**

PDZ domain binding; SH3 domain binding; gap junction channel activity; ion transmembrane transporter activity; signal transducer activity; transmembrane transporter activity;

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