

## Recombinant Human GJA1 293 Cell Lysate

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

### SPECIFICATION

<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.
<b>Applications</b>	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

<b>Gene Name</b>	GJA1 gap junction protein, alpha 1, 43kDa [ Homo sapiens ]
<b>Official Symbol</b>	GJA1
<b>Synonyms</b>	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;
<b>Gene ID</b>	2697
<b>mRNA Refseq</b>	NM_000165
<b>Protein Refseq</b>	NP_000156
<b>MIM</b>	121014
<b>UniProt ID</b>	P17302
<b>Chromosome Location</b>	6q22-q23
<b>Pathway</b>	Arrhythmogenic right ventricular cardiomyopathy (ARVC), organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), conserved biosystem; Calcium Regulation in the Cardiac Cell, organism-specific biosystem; EGFR1 Signaling Pathway, organism-specific biosystem; Formation of annular gap

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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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