

Recombinant Human LIG4 293 Cell Lysate

Cat. No. LIG4-4745HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for ligase IV, DNA, ATP-dependent (LIG4), 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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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 [LIG4 ligase IV, DNA, ATP-dependent \[Homo sapiens \]](#)

Official Symbol LIG4

Synonyms LIG4; ligase IV, DNA, ATP-dependent; DNA ligase 4; DNA joinase; DNA repair enzyme; polydeoxyribonucleotide synthase [ATP] 4; polynucleotide ligase; sealase; DNA ligase IV;

Gene ID [3981](#)

mRNA Refseq [NM_002312](#)

Protein Refseq [NP_002303](#)

MIM [601837](#)

UniProt ID [P49917](#)

Chromosome Location 13q33-q34

Pathway 2-LTR circle formation, organism-specific biosystem; DNA Repair, organism-specific biosystem; Disease, organism-specific biosystem; Double-Strand Break Repair, organism-specific biosystem; Early Phase of HIV Life Cycle, organism-specific biosystem; HIV Infection, organism-specific biosystem; HIV Life Cycle, organism-

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specific biosystem;

Function

ATP binding; DNA binding; DNA ligase (ATP) activity; DNA ligase activity; DNA ligase activity; ligase activity; metal ion binding; nucleotide binding; protein C-terminus binding; protein binding;

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