

Recombinant Human HLA 293 Cell Lysate

Cat. No. HLA-C-5498HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for major histocompatibility complex, class I, C (HLA-C) 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

HLA-C major histocompatibility complex, class I, C [Homo sapiens]

Official Symbol

HLA-C

Synonyms

major histocompatibility complex, class I, C; 4933; Ensembl:ENSG00000204525; FLJ27082; HLA class I histocompatibility antigen, Cw-1 alpha chain;MHC class I antigen heavy chain HLA-C;human leukocyte antigen-C alpha chain;major histocompatibility antigen HLA-C;HLA class I histocompatibility antigen, C alpha chain; HLC-C; D6S204; PSORS1; HLA-JY3

Gene ID

3107

mRNA Refseq

NM_001243042.1

Protein Refseq

NP_001229971.1

MIM

142840

UniProt ID

O19617

Chromosome Location

6p21.3

Pathway

Adaptive Immune System, organism-specific biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Antigen Presentation:

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Folding, assembly and peptide loading of class I MHC, organism-specific biosystem;
Antigen processing and presentation, organism-specific biosystem; Antigen
processing and presentation, conserved biosystem; Antigen processing-Cross
presentation, organism-specific biosystem;

Function

MHC class I receptor activity;

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