

Recombinant Human CD1D & B2M cell lysate

Cat. No. CD1D & B2M-001HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CD1D & B2M Heterodimer derived in Human Cells. The whole cell lysate is provided in 1X Sample Buffer.
Species	Human
Source	Human Cells
Preparation method	Transfected cells were cultured for 48hrs before collection. The cells were lysed in modified RIPA buffer with cocktail of protease inhibitors. Cell debris was removed by centrifugation and then centrifuged to clarify the lysate. The cell lysate was boiled for 5 minutes in 1 x SDS sample buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized.
Lysis buffer	Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Quality control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Recommended Usage	1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube. 2. Re-dissolve the pellet using 200µL pure water and boiled for 2-5 min. 3. Store it at -80°C. Recommend to aliquot the cell lysate into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles. Notes: The lysate is ready to load on SDS-PAGE for Western blot application. If dissociating conditions are required, add

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reducing agent prior to heating.

Stability

Samples are stable for up to twelve months from date of receipt at -80°C

Storage Buffer

50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF

Storage Instruction

Lysate samples are stable for 12 months from date of receipt when stored at -80°C. Avoid repeated freeze-thaw cycles. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.

GENE INFORMATION

Gene Name

CD1D CD1d molecule [Homo sapiens]; B2M beta-2-microglobulin [Homo sapiens]

Official Symbol

CD1D; B2M

Synonyms

R3; CD1A; antigen-presenting glycoprotein CD1d; R3G1; thymocyte antigen CD1D; CD1D antigen, d polypeptide; T-cell surface glycoprotein; CD1d; differentiation antigen CD1-alpha-3; HMC class I antigen-like glycoprotein CD1D; B2M

Gene ID

912; 567

mRNA Refseq

NM_001766; NM_004048

Protein Refseq

NP_001757; NP_004039

MIM

188410; 109700

UniProt ID

P15813; P61769

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Chromosome Location	1q23.1; 15q21-q22.2
Pathway	Amoebiasis, organism-specific biosystem; Hematopoietic cell lineage, organism-specific biosystem. Adaptive Immune System, organism-specific biosystem; Antigen processing and presentation, conserved biosystem
Function	beta-2-microglobulin binding; endogenous lipid antigen binding; lipid antigen binding. identical protein binding; protein binding

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