

Recombinant Human CD1B & B2M cell lysate

Cat. No. CD1B & B2M-001HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CD1B & 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

CD1B CD1b molecule [Homo sapiens]; B2M beta-2-microglobulin [Homo sapiens]

Official Symbol

CD1B; B2M

Synonyms

R1; CD1; CD1A; T-cell surface glycoprotein CD1b; CD1B antigen, b polypeptide; cortical thymocyte antigen CD1B; differentiation antigen CD1-alpha-3; beta-2-microglobulin; beta-2-microglobin; beta chain of MHC class I molecules

Gene ID

910; 567

mRNA Refseq

NM_001764; NM_004048

Protein Refseq

NP_001755; NP_004039

MIM

188360; 109700

UniProt ID

P29016; P61769

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

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