

Human CD8A & CD8B Heterodimer HEK293

Cell Lysate (WB positive control)



Sino Biological Inc.
Biological Solution Specialist

Catalog Number: CT075-H2508HL

CD8A & CD8B Heterodimer Transfected / Overexpression Cell Lysate Product Information

Expressed Host:	HEK293 Cells
Products Description:	HEK293 Cell Human CD8A & CD8B Heterodimer transfected / overexpressed for Western blot (WB) positive control. The whole cell lysate is provided in 1X Sample Buffer (1X modified RIPA buffer+1X SDS loading buffer).
Sequence information:	A DNA sequence encoding the human CD8A (NP_001759.3) (Met1-Asp182) was fused with a flag tag at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the human CD8B (NP_004922.1) (Met1-Pro170) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the human CD8A&CD8B heterodimer was purified.
Predicted N Terminal:	Ser 22 & Leu 22
Molecule Mass:	The recombinant heterodimer of human CD8A&CD8B consists of 392 (202+190) amino acids and has a calculated molecular mass of 44.1 (22.4+21.7) KDa.
Species:	Human

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Preparation Method:	Cell lysate was prepared by homogenization in ice-cold modified RIPA Lysis Buffer with cocktail of protease inhibitors (Sigma). Cell debris was removed by centrifugation. Protein concentration was determined by Bradford assay (Bio-Rad protein assay, Microplate Standard assay). The cell lysate was boiled for 5 min in 1 x SDS loading 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 after protein purification.
Stability:	Samples are stable for up to twelve months from date of receipt.
Recommend 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 boil for 2-5 min. 3. Store the lyophilized cell lysate at 4°C. After re-dissolution, recommend to aliquot it into smaller quantities and store at -80°C.
Storage Buffer:	1 X Sample Buffer (1 X modified RIPA buffer+1 X SDS loading buffer).
Storage Instruction:	Store at 4°C. After re-dissolution, aliquot and store at -80°C.
Application notes:	Western blot (WB): Use at an assay dependent dilution. Other Applications: Not tested. Optimal dilutions/concentrations should be determined by the end user.

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For US Customer: Fax: 267-657-0217 ● Tel: 215-583-7898

Global Customer: Fax :+86-10-5862-8288 ● Tel:+86-400-890-9989 ● <http://www.sinobiological.com>