

# Human CD3E & CD3G Heterodimer CHO Cell Lysate (WB positive control)

Catalog Number: CT089-H46H-EL



**Sino Biological Inc.**  
Biological Solution Specialist

## CD3E & CD3G Heterodimer Transfected / Overexpression Cell Lysate Product Information

<b>Expressed Host:</b>	HEK293 Cells
<b>Products Description:</b>	HEK293 Cell Human CD3E & CD3G 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).
<b>Sequence information:</b>	A DNA sequence encoding the human CD3E (NP_000724.1) (Met1-Asp126) was fused with the Fc region of Llama IgG2b at the C-terminus, constructed the plasmid 1; A DNA sequence encoding the cynomolgus CD3G (NP_000064.1) (Met1-Ser113) was fused with the Fc region of Llama IgG2b at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the human CD3E/CD3G heterodimer was purified.
<b>Predicted N Terminal:</b>	Asp 23 & Gln 23
<b>Molecule Mass:</b>	The recombinant human CD3E/CD3G consists of 696 (353+343) amino acids and has a calculated molecular mass of 78.4 (39.7+38.7) KDa.
<b>Species:</b>	Human

## CD3E & CD3G Heterodimer Transfected / Overexpression Cell Lysate Usage Guide

<b>Preparation Method:</b>	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.
<b>Lysis Buffer:</b>	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.
<b>Quality Control Testing:</b>	12.5% SDS-PAGE Stained with Coomassie Blue after protein purification.
<b>Stability:</b>	Samples are stable for up to twelve months from date of receipt.
<b>Recommend Usage:</b>	<ol style="list-style-type: none"><li>1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube.</li><li>2. Re-dissolve the pellet using 200μL pure water and boil for 2-5 min.</li><li>3. Store the lyophilized cell lysate at 4°C. After re-dissolution, recommend to aliquot it into smaller quantities and store at -80°C.</li></ol>
<b>Storage Buffer:</b>	1 X Sample Buffer (1 X modified RIPA buffer+1 X SDS loading buffer).
<b>Storage Instruction:</b>	Store at 4°C. After re-dissolution, aliquot and store at -80°C.
<b>Application notes:</b>	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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