

**Influenza A H7N9  
(A/Pigeon/Shanghai/S1069/2013)  
Hemagglutinin (HA1 Subunit) HEK293 Cell  
Lysate (WB positive control)**



**Sino Biological Inc.**  
Biological Solution Specialist

**Hemagglutinin / HA Transfected / Overexpression Cell Lysate Product Information**

<b>Expressed Host:</b>	HEK293 Cells
<b>Products Description:</b>	Human Cell lysate that Influenza A H7N9 (A/Pigeon/Shanghai/S1069/2013) HA1 / Hemagglutinin 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 Influenza A virus (A/Pigeon/Shanghai/S1069/2013(A/H7N9)) hemagglutinin (Met1-Gly338), termed as HA1, was expressed with a C-terminal polyhistidine tag.
<b>Predicted N Terminal:</b>	Asp 19
<b>Molecule Mass:</b>	The recombinant HA1 subunit of Influenza A virus (A/Pigeon/Shanghai/S1069/2013(A/H7N9)) hemagglutinin comprises 331 amino acids and has a predicted molecular mass of 36.2 kDa. The apparent molecular mass of the protein is approximately 38-47 kDa in SDS-PAGE under reducing conditions.
<b>Species:</b>	H7N9

**Hemagglutinin / HA 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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