Ebola virus EBOV (subtype Zaire, strain H.sapiens-wt/GIN/2014/Makona-Kissidougou-C15) GP / Glycoprotein HEK293 Cell Lysate (WB positive control)

Catalog Number: 40442-V08H8L

Sino Biological Inc.
Biological Solution Specialist

Ebola virus Glycoprotein Transfected / Overexpression Cell Lysate Product Information

Expressed Host:	HEK293 Cells
Products Description:	Human Cell lysate that Ebola virus EBOV (subtype Zaire, strain H.sapiens-wt/GIN/2014/Kissidougou-C15) GP / Glycoprotein 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 Zaire ebolavirus (strain H.sapiens-wt/GIN/2014/Makona-Kissidougou-C15) GP (QDA39862.1) (Met1-Gln650) was expressed with a polyhistidine tag at the C-terminus.
Predicted N Terminal:	Ile 33
Molecule Mass:	The recombinant zaire ebolavirus (strain H.sapiens-wt/GIN/2014/Makona-Kissidougou-C15) GP consists of 629 amino acids and predicts a molecular mass of 69.3 kDa. Cleaved by a furin-like convertase to GP1 and GP2 with predicted molecular mass of 50.9 KDa and 18.4 kDa. As a result of glycosylation, it migrates as an approximately 92-120 and 23-25 kDa band in SDS-PAGE under reducing conditions.
Species:	EBOV

Ebola virus Glycoprotein Transfected / Overexpression Cell Lysate Usage Guide

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℃. After re-dissolution, recommend to aliquot it into smaller quantities and store at -80℃.
Storage Buffer:	1 X Sample Buffer (1 X modified RIPA buffer+1 X SDS loading buffer).
Storage Instruction:	Store at 4℃. After re-dissolution, aliquot and store at -80℃.
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.