

Anti-GP (Zaire Ebola virus 2014) Rabbit Polyclonal Antibody

CATALOG NUMBER: ZEB-GP-005, 100 µg

Introduction

The Ebola virus (EBOV) is a mononegavirus which contains a 19 kb single-stand RNA encoding seven proteins, nucleoprotein (NP), including polymerase cofactors (VP35), matrix protein (VP40), Glycoprotein (GP), transcription activator (VP30), VP24, and RNA-dependent RNA polymerase (L). Rates of genetic change of ebolavirus are 100 times slower than influenza A in humans, but on the same magnitude as those of hepatitis B.

The main Ebolavirus glycoprotein (GP) is the only viral protein found on the surface of the Ebola viron and is therefore responsible for mediating attachment and entry of the virus into host cells.

Applications

Western blot (1:1,000-5,000), ELISA , IP, etc.

Description

Rabbit polyclonal antibody

Immunogen

A mixture of full length GP protein and truncated GP protein (without “mucin-like domain”) of Zaire Ebolavirus (isolate H.sapiens wt/GIN/2014/Gueckedou-C07) (GenBank Accession No. KJ660347)

Specificity

Reacts with GP protein of Zaire Ebolavirus (2014). Cross-reactivity to other EBOV subtypes or strains not tested.

Purification

Immunoaffinity chromatography

Isotype

IgG

Storage

Store at -20 °C; Stable for 6-months from the date of shipment when kept at 4 °C. Non-hazardous, no MSDS required.

Concentration

2 µg/µl in PBS with 0.1% sodium azide

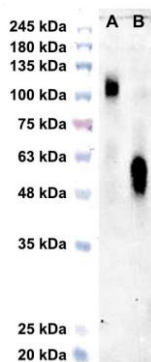


Figure 1. Western blot of ebolavirus glycoproteins using anti-GP rabbit polyclonal antibody (1:3000 dilution).

A, full length GP protein of Ebolavirus (isolate H.sapiens wt/GIN/2014/Gueckedou-C07).

B, truncated GP protein of Ebolavirus (cat# ZEB-GP-006P).

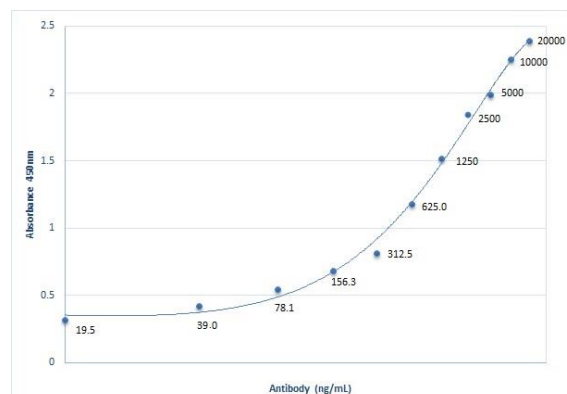


Figure 2. Titration curves of anti-GP rabbit polyclonal antibody to ebolavirus glycoprotein.

96-well corning EILSA plate was coated with ebolavirus GP protein (Cat# ZEB-GP-015P) at a concentration of 2 µg/ml.

Reference:

1. Baize, S, et al. Emergence of Zaire Ebola virus disease in Guinea. N Engl J Med, 371: 1418-1425, 2014.

