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Antibody Datasheet / Certificate of Analysis

Product Name:	Sheep anti-ebola virus (Zaire) antibody
Type:	Polyclonal
Isotype:	Sheep IgG
Product code:	PAB21440-100
Batch Number:	1709260823
Immunogen:	Zaire ebola virus-like particle, recombinant protein
Amount:	100ug
Concentration:	1mg/ml
Buffer:	Phosphate Buffered Saline pH7.4
Preservative:	None. Sterile filtered.
Purification:	Antibody was purified by affinity chromatography on Protein G
Specificity:	This antibody is specific for the Zaire ebola virus matrix protein (VP40), nucleoprotein (NP) and glycoprotein (GP). The antibody has not been tested on other filovirus proteins.

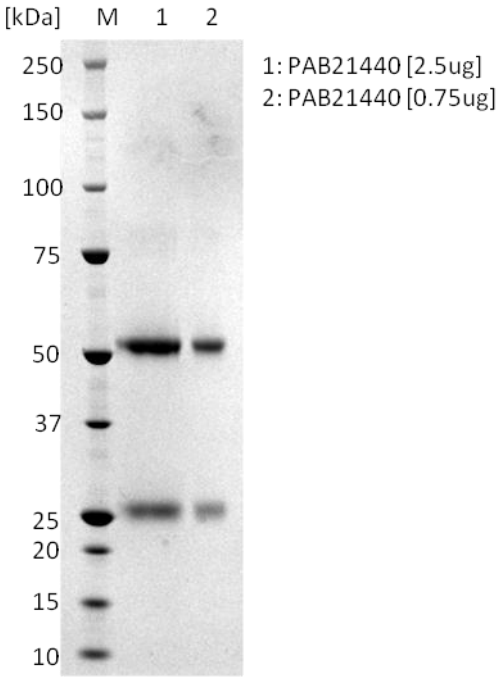
Tested applications: Indirect ELISA, Western blot, immunofluorescence

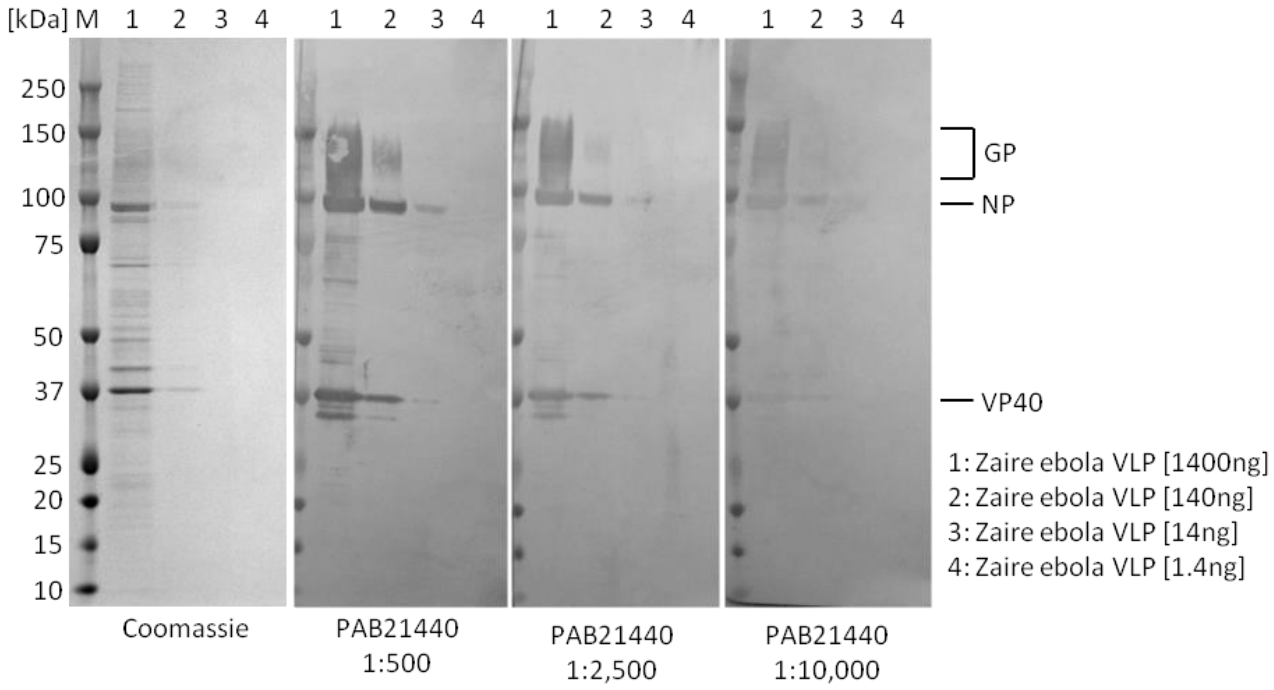
Antigen background: Ebola virus is a member of the filovirus family which are single-stranded negative sense RNA viruses. Virions are mainly composed of the matrix protein VP40, the nucleoprotein NP which encases the viral nucleic acid, and the glycoprotein GP. Members of this family include Zaire, Sudan and Reston ebola viruses and Marburg virus.
The Zaire ebola virus caused outbreak in 1976, 1994, 2002, 2008, and a massive outbreak in 2014 infecting more than 28,000 people, with a fatality rate of almost 40%.
No effective treatments or vaccines have been approved by any governing body as of 2017.

Storage: Store at -20^{0}C.
The antibody is shipped at ambient temperature.
Avoid repeated freeze/thaw cycles.

SDS-PAGE and Western blot

Various amounts of ZEBOVLP antigen were separated on a 4-12% discontinuous PAA SDS-PAGE under reducing conditions. Western blot was performed using 5% dried milk powder in PBS-T as blocking and antibody diluting agent. STAR88P (AbD Serotec) was used as detection antibody at 1:2000 dilution. Western blots were developed using TMB Membrane (KPL).





Direct ELISA data

A Nunc Maxisorp plate was sensitized with ZEBOVLP in various amounts, or Zika virus lysate at 1400 ng/well in 200mM carbonate buffer pH9.2. Then, plate was blocked with 2% BSA in carbonate buffer. Primary antibody was used at various concentrations in PBS-T plus 2% BSA. AbD Serotec's STAR88P antibody was used as detection abtibody at 1:4,000 dilution. All steps were carried out for 1h at room temperature. Three wash steps using PBS-T were used in between each step.

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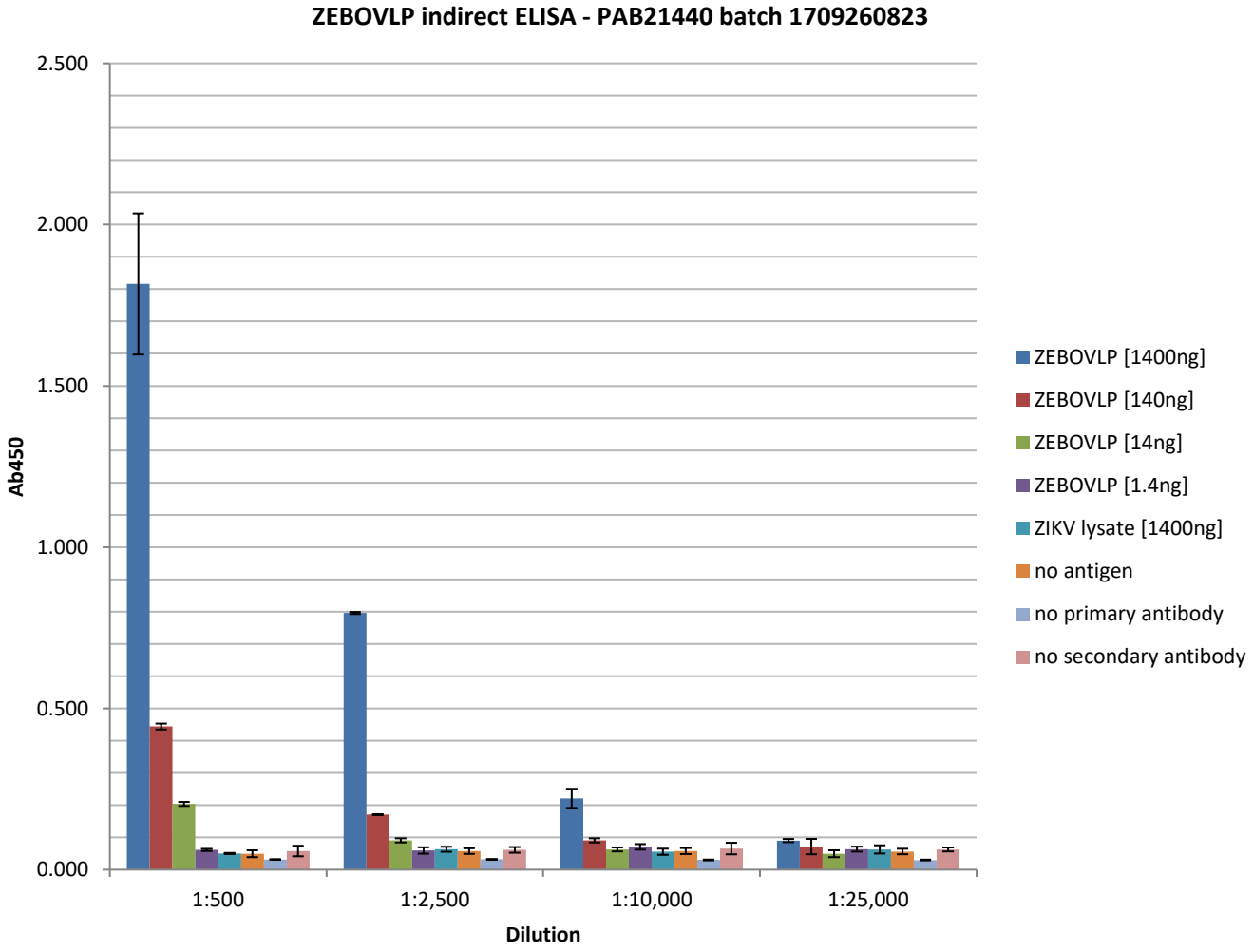

Immunofluorescence data

Hela cells were transfected with plasmids expressing Ebola Zaire glycoprotein, nucleoprotein or VP40, seeded on coverslips and incubated for 48 h. Control coverslips consisted of untransfected cells. After fixation with 4% PFA, samples were stained with PAB21440. Antibody was used at a dilution of 1:500 and Triton X-100 was used as detergent. Imaging was performed using a Leica SP5 confocal microscope (Image by Virology Research Services Ltd).