

Rabbit anti-EBOV VP40

Catalog #: 0301-010

Description:

Affinity purified rabbit polyclonal antibody reactive to EBOV VP40. The antibody detects VP40 in virus-like particles (VLP) and recombinant VP40 (rVP40) in Western Blot and ELISA.

Immunogen/ Target:

Peptide sequence specific to Ebola Virus (EBOV) VP40 matrix protein.

Formulation & Storage: Supplied in PBS in frozen format with no preservatives added. **Store at +4°C** for 2-3 weeks; **-80°C** for long-term

Notes & Usage Guidelines:

Clonality/Isotype: Polyclonal; N/A

Host: Rabbit

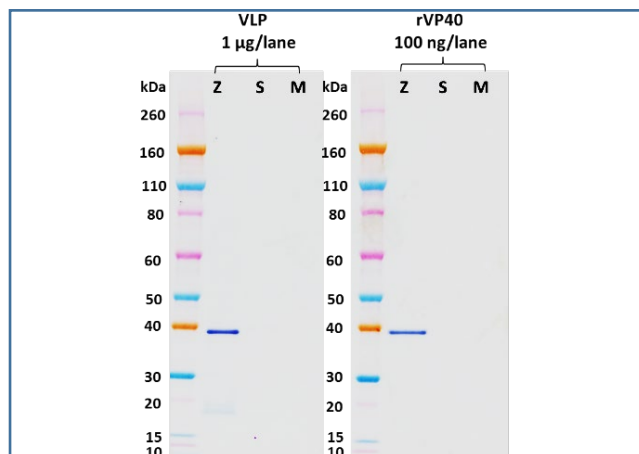
ELISA: Assay-dependent dilution

WB: Assay-dependent dilution

Applications

Western Blot Data:

Anti-EBOV VP40 antibody at 10 ng/mL was able to detect EBOV VP40 in EBOV VLPs and at least 100 ng of EBOV rVP40 by Western Blot Analysis. Western Blots were developed using an anti-rabbit IgG-HRP conjugate and TMB Membrane substrate. No cross-reactivity with MARV VP40 was observed.



ELISA Data:

VLPs and rVP40 proteins were diluted to 10 µg/mL and 3 µg/mL, respectively, in PBS for plate coating. Anti-EBOV VP40 antibody was serially diluted semi-log from 10 µg/mL and incubated on the coated plates. Washed plates were detected with anti-rabbit IgG-HRP conjugate and TMB substrate. OD650 is reported below. The anti-EBOV VP40 antibody strongly reacted to EBOV VP40 in VLP and rVP40. Cross-reactivity was observed against SUDV VP40 in VLP and rVP40. Signals were observed against MARV VLP at the highest concentrations of antibody tested.

Anti-EBOV VP40 Antibody (µg/mL)	EBOV VLP @ 10 µg/mL	SUDV VLP @ 10 µg/mL	MARV VLP @ 10 µg/mL	EBOV rVP40 @ 3 µg/mL	SUDV rVP40 @ 3 µg/mL	MARV rVP40 @ 3 µg/mL
10.0000	3.999	3.408	0.851	3.703	3.541	0.092
3.1623	3.973	2.554	0.351	4.000	3.061	0.077
1.0000	3.912	1.317	0.147	4.000	2.022	0.068
0.3162	3.598	0.527	0.077	3.771	0.987	0.060
0.1000	3.136	0.207	0.062	3.380	0.377	0.060
0.0316	2.055	0.103	0.061	2.545	0.165	0.059
0.0100	1.006	0.068	0.052	1.412	0.090	0.077
0.0032	0.404	0.059	0.053	0.592	0.069	0.061
0.0010	0.179	0.059	0.053	0.252	0.069	0.064
0.0003	0.096	0.060	0.055	0.123	0.064	0.064
0.0001	0.071	0.059	0.058	0.089	0.070	0.069
0.0000	0.063	0.062	0.062	0.068	0.084	0.075

OD 650 nm

Certificate of analysis:

A hardcopy of datasheet is sent along with the products. Please refer to it for detailed information. For older lots, refer to the applicable certificate of analysis that may be requested at products@ibtbioservices.com.

Related Products:

IBT provides a wide array of antibodies, recombinant proteins, and other infectious disease reagents. Please see our website, www.ibtbioservices.com for more details.

Intended for research use only, not for human, therapeutic, or diagnostic applications.

The buyer cannot sell or otherwise transfer this product for Commercial Purposes without written approval of Integrated BioTherapeutics, LLC.

Copyright 2023. Integrated BioTherapeutics, LLC. All rights reserved.