

Rabbit anti-ZEBOV VP40

Catalog #: 0301-010

Lot #: 1107001

Immunogen: Peptide sequence specific to Zaire Ebola virus (ZEBOV) VP40 matrix protein.

Description: Affinity purified rabbit polyclonal antibody reactive to Zaire Ebola virus VP40. The antibody detects VP40 in virus-like particles (VLP) and recombinant Zaire VP40 (rZVP40) in Western blot and ELISA.

Supplied: 100 µg is supplied in PBS at a concentration of 1 mg/mL. 0.01% Sodium azide has been added.

Raised in: Rabbits

Purification: Antibody is affinity purified using immobilized immunogen.

Clonality: Polyclonal

Relevance: The antibody can be used for detection of ZEBOV VP40 matrix protein.

Recommended Dilutions:

ELISA: Assay-dependent dilution.

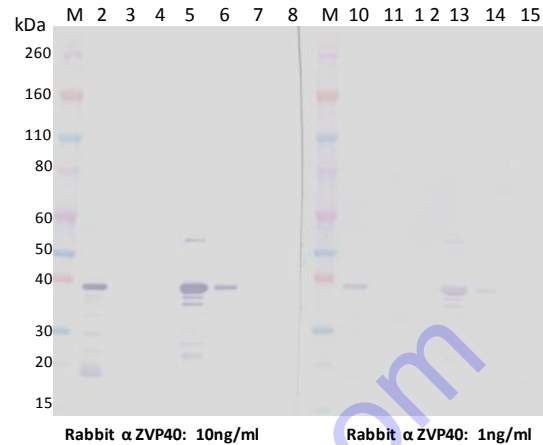
WB: Assay-dependent dilution; internal QC demonstrates detection of at least 50 ng of recombinant Zaire VP40 at a use dilution of 10 ng per mL of antibody in diluent using an anti-rabbit alkaline phosphatase antibody conjugate and chromogenic substrate for visualization.

Storage: 2-3 weeks +4°C, -20°C long term. Avoid multiple freeze thaws.

Cross Reactivity: a very slight cross-reactivity may be observed to Sudan Ebola virus (SEBOV) VP40 when using the antibody at high concentrations; no cross reactivity was observed with Marburg virus (MARV) VP40 in VLPs.

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

Western Blot Data:



Lanes: 2, 10 1 µg ZEBOV VLP
 Lanes 3, 11 1 µg SEBOV VLP
 Lanes 4, 12 1 µg MARV VLP
 Lanes 5, 13 500 ng rZVP40
 Lanes 6, 14 50 ng rZVP40
 Lanes 7, 15 1 ng rZVP40

Western blot was detected with anti-VP40 at 10 ng/mL and 1 ng/mL and visualized using an anti-rabbit AP conjugate and chromogenic substrate. VP40 is visualized in the ZEBOV VLPs but not in the SEBOV or MARV VLPs. 500 and 50 ng of recombinant Zaire VP40 is detectable as described.

ELISA Data:

[Ab] µg/mL	OD650		
	ZEBOV VLP@10 µg/mL	SEBOV VLP@10 µg/mL	MMARV VLP@10 µg/mL
3.000	3.8666	0.0707	0.0596
1.000	3.2863	0.0694	0.0620
0.333	2.0591	0.0598	0.0594
0.111	0.8901	0.0664	0.0653
0.037	0.3646	0.0635	0.0571
0.012	0.1511	0.0639	0.0581
0.004	0.0862	0.0685	0.0637
0	0.0555	0.0608	0.0574

VLPs were solubilized in a final concentration of 1% Triton X-100 to release VP40 and diluted to 10 µg/mL in PBS (0.01% Triton) for plate coating. Anti-VP40 antibody was serially diluted 3-fold from 3 µg/mL and incubated on the VLP coated plates. Washed plates were detected with anti-rabbit HRP conjugate and TMB substrate. OD₆₅₀ is reported above.