



IBT BIOSERVICES

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Rabbit anti-MARV VP40

Catalog #: 0303-001

Lot #: 1107002

Immunogen: Peptide specific to the VP40 matrix protein of Lake Victoria Marburg virus Musoke strain.

Description: Affinity purified rabbit polyclonal antibody reactive to Marburg virus (MARV) VP40. The antibody detects VP40 in MARV virus-like particles (VLP) and recombinant MARV VP40 (rMVP40) 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 MARV VP40 matrix protein.

Recommended Dilutions:

ELISA: Assay-dependent dilution.

WB: Assay-dependent dilution; internal QC demonstrates detection of at least 0.5 µg of partially purified recombinant MARV VP40 at a use dilution of 50 ng/mL of diluent using an anti-rabbit alkaline phosphatase antibody conjugate and chromogenic substrate.

Storage: 2-3 weeks +4°C, -20°C long term

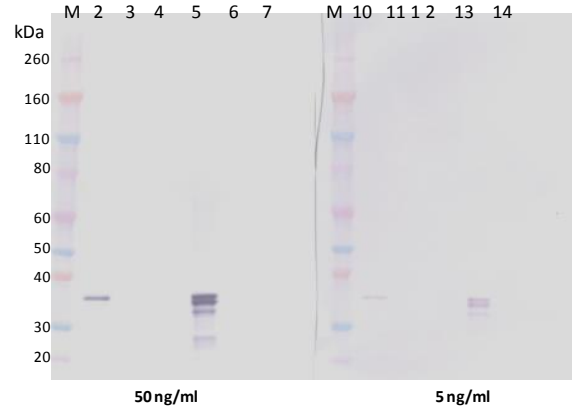
Cross Reactivity: Not cross reactive to Sudan Ebola virus (SEBOV) or Zaire Ebola virus (ZEBOV) VP40

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

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Western Blot Data:



Lanes: 2, 10 0.2 µg MARV VLP
Lanes 3, 11 0.2 µg SEBOV VLP
Lanes 4, 12 0.2 µg ZEBOV VLP
Lanes 5, 13 500 ng rMVP40
Lanes 6, 14 50 ng rMVP40

Western blot was detected with Rabbit anti-MARV VP40 at 50 ng/mL and 5 ng/mL and visualized using an anti-rabbit AP conjugate and chromogenic substrate. VP40 is visualized in the MARV VLPs but not in the SEBOV or ZEBOV VLPs. 500 ng of partially purified recombinant MARV VP40 is detectable as described.

ELISA Data:

| [Ab] µg/mL | OD ₆₅₀ | | |
|------------|--------------------|--------------------|--------------------|
| | MMARV VLP@10 µg/mL | SEBOV VLP@10 µg/mL | ZEBOV VLP@10 µg/mL |
| 20.000 | 2.3958 | 0.0952 | 0.0701 |
| 6.667 | 1.7637 | 0.0597 | 0.0614 |
| 2.222 | 1.0632 | 0.0516 | 0.0546 |
| 0.741 | 0.4689 | 0.0490 | 0.0534 |
| 0.247 | 0.1905 | 0.0647 | 0.0566 |
| 0.082 | 0.0912 | 0.0492 | 0.0629 |
| 0.027 | 0.0628 | 0.0498 | 0.0535 |
| 0 | 0.0490 | 0.0542 | 0.0497 |

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 20 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.