



# IBT BIOSERVICES

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## Rabbit anti-MARV VP40 Affinity Purified pAb

**Catalog #:** 0303-001

**Lot #:** 1110004

**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 1.49 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.

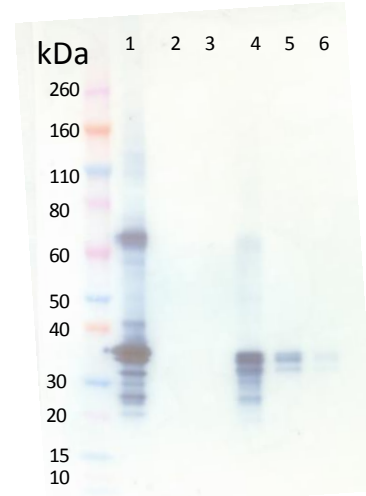
**WB:** Assay-dependent dilution; internal QC demonstrates detection of at least 5 ng of partially purified recombinant MARV VP40 at a use dilution of 100 ng/mL of diluent using an anti-rabbit horseradish peroxidase antibody conjugate and chromogenic substrate.

**Storage:** 1-2 weeks +4°C, -20°C long term

**Cross Reactivity:** Not cross reactive to Sudan Ebola virus (SUDV) or Zaire Ebola virus (EBOV) VP40

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

### Western Blot Data:



1 µg MARV VLP (lane 1); 1 µg SEBOV VLP (lane 2); 1 µg ZEBOV VLP (lane 3); rMVP40 500 ng (lane 4); 50 ng (lane 5); 5 ng (lane 6).

Western blot was detected with Rabbit anti-MARV VP40 at 100 ng/mL and visualized using an anti-rabbit HRP conjugate and chromogenic substrate. VP40 is visualized in the MARV VLPs but not in the SUDV or EBOV VLPs. 500, 50 and 5 ng of partially purified recombinant MARV VP40 is detectable as described.

### ELISA Data:

µg/mL pAb	OD650
10.000	2.748
3.333	2.014
1.111	1.147
0.370	0.488
0.123	0.215
0.041	0.113
0.014	0.097
0.000	0.087

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 10 µg/mL and incubated on the VLP coated plates. Washed plates were detected with anti-rabbit HRP conjugate and TMB substrate. OD<sub>650</sub> is reported above.