



IBT BIOSERVICES

Rabbit anti-MARV GP

Catalog #: 0303-007

Lot #: 1511002

Immunogen: Peptide sequence to Marburg virus (MARV) glycoprotein (GP); Sequence is specific to the GP2 subunit.

Description: Affinity purified rabbit polyclonal antibody reactive to MARV GP. The antibody detects GP in virus-like particles (VLP) and recombinant GP without the transmembrane region (rGPΔTM) in Western blot and ELISA.

Supplied: 100 µg of antibody is supplied in PBS at a concentration of **1.147 mg/mL**. 0.02% 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 GP and more specifically, MARV GP2 when the protein is denatured and reduced.

Recommended Dilutions:

ELISA: Assay-dependent dilution.

WB: Assay-dependent dilution; internal QC demonstrates detection of at least 0.2 µg of partially purified recombinant MARV rGPΔTM with a use dilution of 50 ng per mL of antibody in diluent using an peroxidase antibody conjugate and chromogenic substrate for visualization.

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

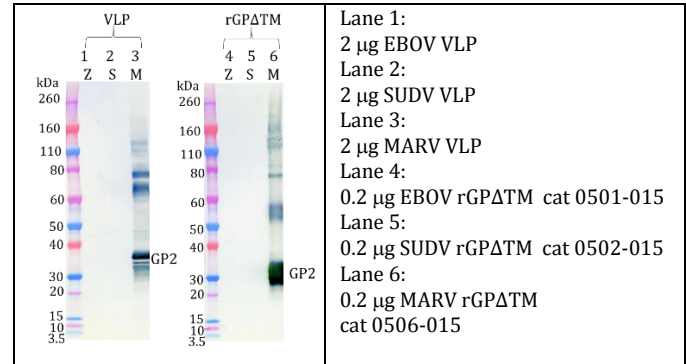
Cross Reactivity: In Western blotting: No cross-reactivity was observed to Ebola virus (EBOV) or Sudan virus (SUDV) VLP or rGPΔTM. In ELISA: Slight reactivity against EBOV and SUDV VLP only at the highest concentration of antibody. No cross-reactivity was observed against EBOV and SUDV rGPΔTM.

Related Products:

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

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Western Blot Data:



Western blots were detected with anti-MARV GP antibody at 50 ng/mL and visualized using an anti-rabbit IgG-HRP conjugate and TMB Membrane substrate. GP2 is visualized in the MARV VLP and rGPΔTM as indicated. Note: GP is highly glycosylated and most often detects at a molecular weight higher than the theoretical size due to the altered mobility.

ELISA Data:

Pab (µg/mL)	VLP			rGPΔTM		
	MARV @ 10 µg/mL	EBOV @ 10 µg/mL	SUDV @ 10 µg/mL	MARV @ 1 µg/mL	EBOV @ 1 µg/mL	SUDV @ 1 µg/mL
20.0000	3.396	0.453	0.934	4.000	0.108	0.118
6.3246	3.408	0.186	0.388	4.000	0.071	0.080
2.0000	3.358	0.099	0.181	4.000	0.062	0.086
0.6325	3.183	0.072	0.105	3.980	0.057	0.056
0.2000	2.634	0.063	0.072	3.470	0.069	0.055
0.0632	1.607	0.066	0.066	2.750	0.055	0.072
0.0200	0.757	0.064	0.060	1.571	0.055	0.061
0.0063	0.311	0.060	0.059	0.712	0.054	0.073
0.0020	0.179	0.086	0.067	0.290	0.066	0.060
0.0006	0.087	0.071	0.055	0.147	0.059	0.056
0.0002	0.070	0.059	0.060	0.092	0.064	0.063
0	0.062	0.085	0.087	0.063	0.058	0.058

VLPs and rGPΔTM proteins were diluted to 10 µg/mL and 1 µg/mL, respectively in PBS for plate coating. Anti-MARV GP antibody was serially diluted semi-log from 20 µg/mL and incubated on the coated plates. Washed plates were detected with anti-rabbit IgG-HRP conjugate and TMB substrate. OD₆₅₀ is reported above.

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

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