



IBT BIOSERVICES

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Mouse anti-EBOV VP40 mAb (3G5)

Catalog #: 0201-016

Lot #: 1511003

Immunogen: purified recombinant Ebola virus VP40 (EBOV rVP40) produced in *E. coli*.

Description: Protein G purified mouse monoclonal antibody reactive to EBOV VP40. The antibody detects VP40 in virus-like particles (VLP) and recombinant protein.

Supplied: 100 µg is supplied in buffer containing Histidine, sodium chloride and sucrose at a concentration of **0.718 mg/mL**. No preservative is added.

Purification: Antibody is purified using immobilized protein G.

Clonality: Monoclonal of the IgG1 isotype

Relevance: The antibody can be used for detection of EBOV VP40.

Recommended Dilutions:

ELISA: Assay-dependent dilution

Western Blot: Assay-dependent dilution. Internal QC demonstrates good detection when using 3G5 mAb at a use dilution of 10 ng/mL.

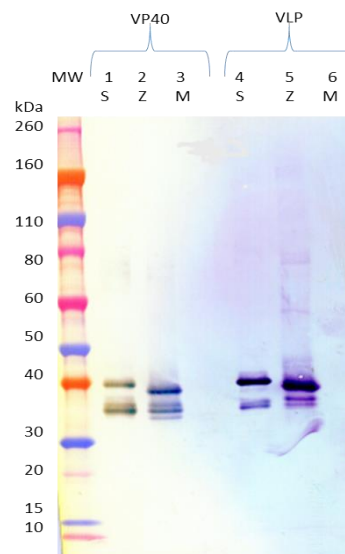
Storage: 2-3 weeks +4°C, -20°C long term

Cross Reactivity: Cross reactivity was observed against Sudan Virus (SUDV) VP40 in VLP and SUDV rVP40. No cross reactivity was observed with Marburg Virus (MARV) VP40 in VLP or MARV rVP40.

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.

Western Blot Data:



Western blots were detected under reduced conditions with anti-EBOV VP40 mAb 3G5 at 10 ng/mL and visualized using an anti-mouse IgG-HRP conjugate and TMB membrane substrate. rVP40 was loaded at 100 ng per lane. SUDV rVP40 and EBOV rVP40 are visualized in lanes 1 and 2, respectively. VLP was loaded at 1 µg per lane. VP40 is detected in SUDV VLP (lane 4) and EBOV VLP (lane 5).

ELISA Data:

3G5 µg/mL	rVP40 (1 µg/mL)			VLP (10 µg/mL)		
	EBOV	SUDV	MMARV	EBOV	SUDV	MMARV
10.0000	3.801	3.639	0.079	3.609	2.972	0.069
3.1623	3.677	3.635	0.066	3.522	2.949	0.063
1.0000	3.690	3.498	0.056	3.493	2.758	0.056
0.3162	3.585	3.496	0.052	3.233	2.378	0.083
0.1000	3.302	3.185	0.051	2.851	1.572	0.061
0.0316	2.766	2.622	0.049	2.073	0.767	0.056
0.0100	1.836	1.639	0.062	1.133	0.327	0.053
0.0032	0.901	0.791	0.053	0.501	0.144	0.051
0.0010	0.359	0.312	0.051	0.206	0.079	0.066
0.0003	0.158	0.142	0.051	0.104	0.060	0.044
0.0001	0.148	0.089	0.056	0.067	0.057	0.058
OD 650 nm						

rVP40 proteins and VLPs were diluted to 1 and 10 µg/mL, respectively in PBS for plate coating. Anti-EBOV VP40 antibody 3G5 was serially diluted semi-log dilutions from 10 µg/mL and incubated on the coated plates. Washed plates were detected with anti-mouse 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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