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Mouse anti-MMARV VP40 mAb (6B1)

Catalog #: 0203-016

Lot #: 1602002

Immunogen: Purified recombinant Musoke Marburgvirus VP40 (MMARV VP40) produced in *E.coli*.

Description: Protein G purified mouse monoclonal antibody reactive to MMARV 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 **1.166 mg/mL**. No preservative is added.

Purification: Antibody is purified using immobilized protein G.

Clonality: Monoclonal of the IgG2a isotype

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

Recommended Dilutions:

ELISA: Assay-dependent dilution

WB: Assay-dependent dilution. Internal QC demonstrates good detection when using 6B1 mAb at a use dilution of 0.5 µg/mL.

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

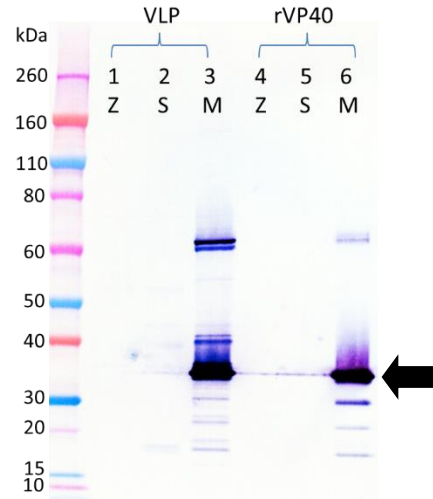
Cross Reactivity: No reactivity was observed against recombinant Ebola virus (EBOV) and Sudan virus (SUDV) VLP, or against EBOV and SUDV rVP40 proteins.

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.

21 Firstfield RD * Suite 100
Gaithersburg, MD 20878
877-411-2041
Services@ibtbioservices.com

Western Blot Data:



Western blots were detected under reduced conditions with anti-MMARV VP40 mAb 6B1 at 0.5 µg/mL and visualized using an anti-mouse IgG-HRP conjugate and TMB membrane substrate. VP40 is visualized in baculovirus-expressed MMARV VLP (lane 3) but not in the EBOV or SUDV VLP (lanes 1, 2). MMARV rVP40 is also visualized (lane 6). No cross-reactivity with EBOV or SUDV rVP40 is observed (lanes 4, 5).

ELISA Data:

6B1 µg/mL	VLP (10 µg/mL)		
	EBOV	SUDV	MMARV
10.0000	0.100	0.131	3.483
3.1626	0.080	0.082	3.517
1.0002	0.059	0.068	3.548
0.3163	0.056	0.064	3.448
0.1000	0.046	0.048	3.052
0.0316	0.044	0.054	2.004
0.0100	0.043	0.046	0.978
0.0032	0.049	0.068	0.440
0.0010	0.048	0.050	0.169
0.0003	0.051	0.046	0.088
0.0001	0.050	0.048	0.063
0.0000	0.049	0.074	0.113
OD 650 nm			

VLPs were diluted to 10 µg/mL in PBS for plate coating. Anti-MMARV VP40 antibody 6B1 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.

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