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Mouse anti-MMARV VP40 mAb (1D1)

Catalog #: 0203-012

Lot #: 1611003

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 DPBS buffer at a concentration of 1.387 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 MMARV VP40.

Recommended Dilutions:

ELISA: Assay-dependent dilution

WB: Assay-dependent dilution. Internal QC demonstrates good detection when using 1D1 mAb at a use dilution of 0.5 µg/mL.

Storage: 2-3 weeks +4°C, -80°C long term

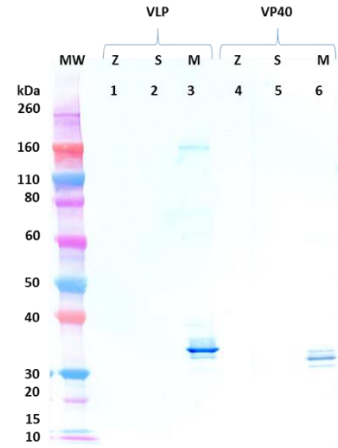
Cross Reactivity: No reactivity was observed against recombinant Ebola virus (EBOV) and Sudan virus (SUDV) VLP, or against EBOV and SUDV rVP40 proteins.

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.

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Western Blot Data:



Western blots were detected under reduced conditions with anti-MMARV VP40 mAb 1D1 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:

1D1 µg/mL	VLP (10 µg/mL)		
	EBOV	SUDV	MMARV
10.0000	0.159	0.268	2.588
3.1626	0.117	0.181	2.452
1.0002	0.092	0.116	2.419
0.3163	0.084	0.088	2.020
0.1000	0.078	0.078	1.509
0.0316	0.071	0.075	0.595
0.0100	0.069	0.075	0.289
0.0032	0.076	0.093	0.139
0.0010	0.114	0.107	0.106
0.0003	0.098	0.096	0.092
0.0001	0.064	0.078	0.076
	OD 650 nm		

VLPs were diluted to 10 µg/mL in PBS for plate coating. Anti-MMARV VP40 antibody 1D1 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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