

Mouse anti-MMARV VP40 mAb (1D1)

Catalog #: 0203-012

Lot #: 1612001

Immunogen: Purified recombinant Musoke Marburg virus 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.

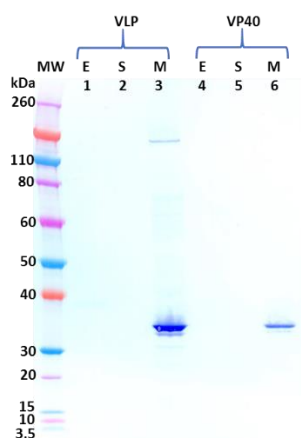
Supplied: 100 µg is supplied in DPBS buffer at a concentration of 2.239 mg/mL. No preservative is added.

Clonality: Monoclonal of the IgG1 isotype

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

Recommended Dilutions: Assay-dependent dilution

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 VP40 recombinant protein is also visualized (lane 6). No cross-reactivity with EBOV or SUDV VP40 recombinant protein is observed (lanes 4, 5).

ELISA Data:

1D1 µg/mL	VLP @ 10 µg/mL		
	EBOV	SUDV	MMARV
10.0000	0.237	0.254	2.836
3.1626	0.221	0.230	2.689
1.0002	0.204	0.197	2.438
0.3163	0.151	0.159	2.136
0.1000	0.113	0.124	1.542
0.0316	0.090	0.094	0.754
0.0100	0.095	0.088	0.326
0.0032	0.078	0.083	0.156
0.0010	0.074	0.086	0.137
0.0003	0.084	0.097	0.094
0.0001	0.079	0.080	0.100
0.0000	0.074	0.082	0.089
OD 650 nm			

1D1 µg/mL	VP40 recombinant proteins @ 3 µg/mL		
	EBOV	SUDV	MMARV
10.0000	0.062	0.141	4.000
3.1626	0.066	0.128	4.000
1.0002	0.063	0.110	3.985
0.3163	0.091	0.102	3.855
0.1000	0.063	0.085	3.492
0.0316	0.068	0.079	2.854
0.0100	0.070	0.068	1.976
0.0032	0.073	0.070	1.014
0.0010	0.089	0.097	0.443
0.0003	0.102	0.086	0.203
0.0001	0.068	0.073	0.108
0.0000	0.068	0.072	0.101
OD 650 nm			

VLP's and VP40 recombinant proteins were diluted to 10 µg/mL and 3 µg/mL, respectively, in PBS for plate coating. Anti-MARV VP40 antibody was serially diluted semi-log from 10 µg/mL and incubated on the coated plates. Washed plates were detected with anti-mouse IgG-HRP conjugate and TMB microwell substrate. OD650 is reported above. Strong signals are shown against MARV VP40 recombinant protein and MARV VLP. Increased background signals against EBOV and SUDV VLP's are present. No cross-reactivity with EBOV or SUDV VP40 recombinant protein is observed.

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