

Mouse anti-MMARV VP40 mAb (1D1)

Catalog #: 0203-012

Description:

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

Immunogen/ Target:

Purified recombinant Musoke Marburg virus VP40 (MMARV VP40) produced in *E. coli*.

Formulation & Storage: Supplied in PBS in frozen format with no preservatives added. **Store at +4°C** for 2-3 weeks; **-80°C** for long-term

Notes & Usage Guidelines:

Clonality/Isotype: Monoclonal; IgG1

Host: Mouse

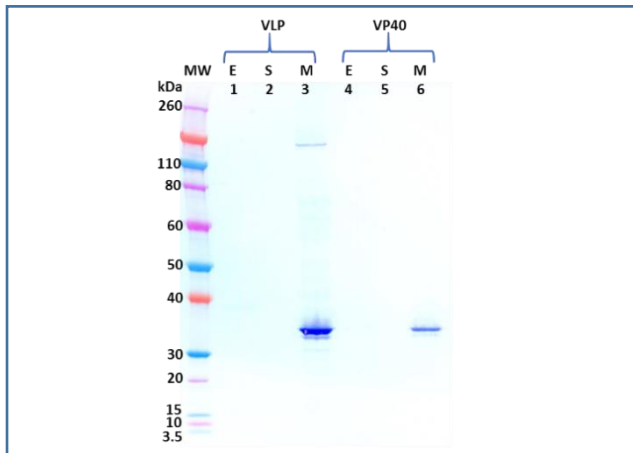
ELISA: Assay-dependent dilution

WB: Assay-dependent dilution

Applications

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:

VLP's and VP40 recombinant proteins were diluted to 10 µg/mL and 3 µg/mL, respectively, in PBS for plate coating. Anti-MMARV 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 below.

1D1 µg/mL	VLP @ 10 µg/mL			1D1 µg/mL	VP40 recombinant proteins @ 3 µg/mL		
	EBOV	SUDV	MMARV		EBOV	SUDV	MMARV
10.0000	0.237	0.254	2.836	10.0000	0.062	0.141	4.000
3.1626	0.221	0.230	2.689	3.1626	0.066	0.128	4.000
1.0002	0.204	0.197	2.438	1.0002	0.063	0.110	3.985
0.3163	0.151	0.159	2.136	0.3163	0.091	0.102	3.855
0.1000	0.113	0.124	1.542	0.1000	0.063	0.085	3.492
0.0316	0.090	0.094	0.754	0.0316	0.068	0.079	2.854
0.0100	0.095	0.088	0.326	0.0100	0.070	0.068	1.976
0.0032	0.078	0.083	0.156	0.0032	0.073	0.070	1.014
0.0010	0.074	0.086	0.137	0.0010	0.089	0.097	0.443
0.0003	0.084	0.097	0.094	0.0003	0.102	0.086	0.203
0.0001	0.079	0.080	0.100	0.0001	0.102	0.086	0.203
0.0000	0.074	0.082	0.089	0.0000	0.068	0.073	0.108
				0.0000	0.068	0.072	0.101

Certificate of analysis:

A hardcopy of datasheet is sent along with the products. Please refer to it for detailed information. For older lots, refer to the applicable certificate of analysis that may be requested at products@ibtbioservices.com.

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