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Mouse anti-EBOV VP40 mAb (5B12)

Catalog #: 0201-017

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

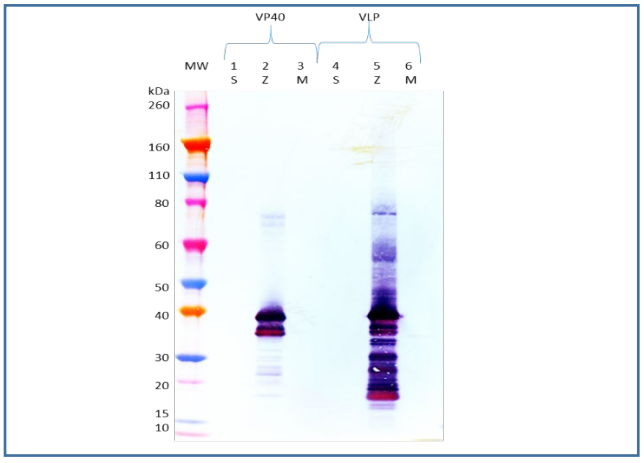
Immunogen/ Target:
Purified recombinant Ebola virus VP40 (EBOV rVP40) produced in *E. coli*.

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; IgG2b
Host: Mouse
ELISA: Assay-dependent dilution
WB: Assay-dependent dilution

Applications

Western Blot Data:
Western blots were detected under reduced conditions with anti-EBOV VP40 mAb 5B12 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. EBOV rVP40 is visualized in lane 2. VLP was loaded at 1 µg per lane. VP40 is detected in EBOV VLP in lane 5.



ELISA Data:
rVP40 proteins and VLPs were diluted to 1 and 10 µg/mL, respectively in PBS for plate coating. Anti-EBOV VP40 antibody 5B12 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. OD_{650} is reported below.

5B12 µg/mL	rVP40 (1 µg/mL)			VLP (10 µg/mL)		
	EBOV	SUDV	MMARV	EBOV	SUDV	MMARV
10.0000	3.879	0.154	0.056	3.621	0.090	0.066
3.1623	3.722	0.085	0.053	3.614	0.069	0.067
1.0000	3.634	0.082	0.057	3.593	0.060	0.066
0.3162	3.594	0.070	0.055	3.495	0.062	0.079
0.1000	3.412	0.069	0.052	3.288	0.054	0.067
0.0316	2.965	0.076	0.057	2.734	0.056	0.059
0.0100	2.145	0.082	0.051	1.828	0.051	0.064
0.0032	1.120	0.078	0.052	0.912	0.053	0.056
0.0010	0.464	0.088	0.057	0.375	0.065	0.074
0.0003	0.219	0.085	0.062	0.151	0.065	0.068
0.0001	0.100	0.068	0.056	0.095	0.054	0.058

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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