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Mouse anti-SEBOV VP40 mAb (1G10)

Catalog #: 0202-018

Lot #: 1205005

Immunogen: Purified recombinant Sudan Ebola Virus VP40 (SEBOV VP40) produced in *E.coli*.

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

Fetal bovine serum was used in the production of the monoclonal antibody; a small amount of bovine IgG may have co-purified with the antibody upon purification with Protein A and thus may be present.

Supplied: 100 µg is supplied in PBS at a concentration of 0.9 mg/mL. No preservative is added.

Purification: Antibody is purified using immobilized protein A.

Clonality: Monoclonal of the IgG₁ isotype

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

Recommended Dilutions:

ELISA: Assay-dependent dilution

WB: Assay-dependent dilution. Internal QC demonstrates strong detection when using 1G10 mAb at a use dilution of 5 ng/mL.

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

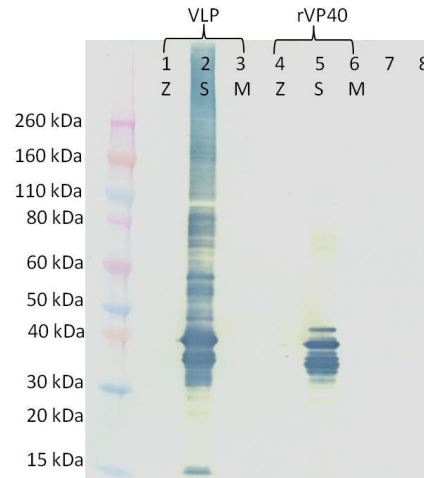
Cross Reactivity: No cross-reactivity was observed to recombinant Zaire ebolavirus VP40 (ZEBOV) or Musoke Marburg (MMARV) VP40, nor to ZEBOV and MMARV virus like particles. The ZEBOV virus like particle showed signal above background in the ELISA at the highest concentration of antibody tested. The antibody does not react to *E.coli* lysate from which the immunogen was expressed.

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Western Blot Data:



Western blots were detected under reduced conditions with anti-SEBOV VP40 mAb 1G10 at 5 ng/mL and visualized using an anti-Mouse HRP conjugate and TMB membrane substrate. VP40 is visualized in baculovirus-expressed SEBOV VLP (lane 2) but not in the ZEBOV or MMARV VLPs (lanes 1, 3). rSEBOV VP40 is also visualized (lane 5). No cross-reactivity with ZEBOV or MMARV rVP40 is observed (lanes 4, 6). This antibody does not react to *E.coli* lysate (lane 7) or baculovirus lysate (lane 8).

ELISA Data:

		OD 650 nm		
	Coating Antigen	ZEBOV VLP @ 10 µg/mL	SEBOV VLP @ 10 µg/mL	MMARV VLP @ 10 µg/mL
ES-VP-1G10 lot 1205005 (µg/mL)	20.0000	0.1965	3.6789	0.0888
	6.6667	0.1081	3.5677	0.0673
	2.2222	0.0750	3.4489	0.0630
	0.7407	0.0651	3.4743	0.0608
	0.2469	0.0618	3.3723	0.0789
	0.0823	0.0599	3.1396	0.0648
	0.0274	0.0605	2.5229	0.0641
	0.0091	0.0651	1.6260	0.0715
	0.0030	0.0589	0.7892	0.0602
	0.0010	0.0635	0.3455	0.0629
	0.0003	0.0579	0.1723	0.0701
	0.0000	0.0516	0.0563	0.0533

VLPs were solubilized in a final concentration of 1% Triton X-100 and diluted to 10 µg/mL in PBS (0.01% Triton) for plate coating. Anti-SEBOV VP40 antibody was serially diluted 3-fold from 20 µg/mL and incubated on the coated plates. Washed plates were detected with anti-mouse HRP conjugate and TMB substrate. OD₆₅₀ is reported above.

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.