

## Mouse anti-SUDV VP40 GP mAb (1G10)

Catalog #: 0202-018

### Description:

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

### Immunogen/ Target:

Purified recombinant Sudan Ebola Virus VP40 (SUDV 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:** Chimeric

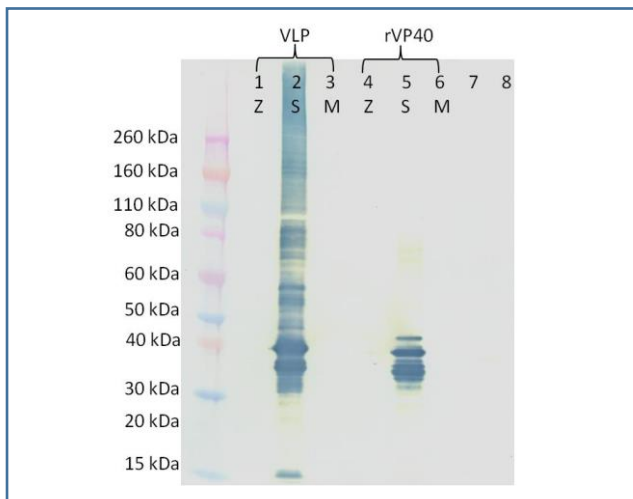
**ELISA:** Assay-dependent dilution

**WB:** Assay-dependent dilution

## Applications

### Western Blot Data:

Western blots were detected under reduced conditions with anti-SUDV 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 SUDV VLP (lane 2) but not in the ZEBOV or MMARV VLPs (lanes 1, 3). rSUDV 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:

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-SUDV 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. OD<sub>650</sub> is reported below.

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

### 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](mailto:products@ibtbioservices.com).

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