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Mouse anti-SUDV GP mAb (16F6)

Catalog #: 0280-001

Lot #: 1601003

Description: Purified mouse monoclonal antibody 16F6 that binds to a conformation epitope on Sudan virus (SUDV) glycoprotein (GP). This antibody demonstrates protection against SUDV both *in vitro* and *in vivo* (Dias et al., 2011 Nov 20, *Nat Struct Mol Biol.* 18 (12): 1424-1427).

Immunogen: Venezuelan equine encephalitis virus replicons encoding SUDV GP and gamma-radiation-inactivated SUDV-Boniface were used to generate the original mouse monoclonal antibody.

Supplied: 100 µg is supplied in buffer containing Histidine, sodium chloride and sucrose at a concentration of **3.764 mg/mL**. No preservative is added.

Clonality: Monoclonal of the IgG₁ isotype

Relevance: The antibody can be used as a positive control for plaque reduction neutralization test (PRNT) and neutralization assay using SUDV-GP pseudotyped VSV.

Recommended Dilutions:

ELISA: Assay-dependent dilution. Using recombinant GP is not recommended as a coating antigen in ELISA.

WB: Not recommended because 16F6 recognizes conformational epitope.

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

Cross Reactivity:

In ELISA: No cross-reactivity was observed to Ebola virus (EBOV) or Marburg virus (MARV) virus-like particles (VLP).

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.

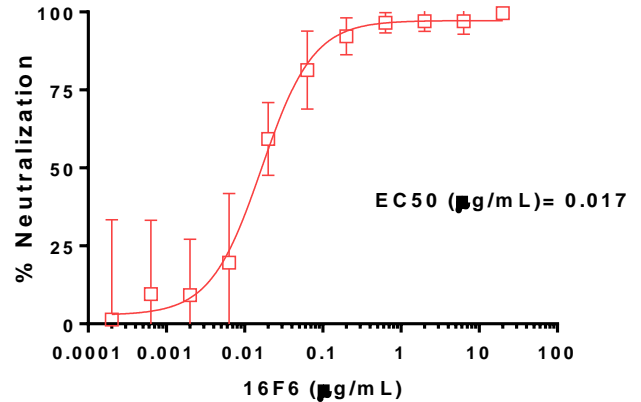
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Neutralization Data:

SUDV-VSV Neutralization by 16F6



Anti-SUDV mouse mAb 16F6, starting at 50 µg/mL followed by serial dilutions, was incubated with the VSV pseudotyped with SUDV GP (SUDV-VSV) containing luciferase gene for one hour prior to adding to Vero cells. Infectivity was determined the next day by assessing luciferase activity. We found that 17 ng/mL of 16F6 reduced infectivity of SUDV-VSV by 50% and 1 µg/mL of 16F6 neutralized 100%.

ELISA Data:

16F6 concentration (µg/mL)	Coating antigen: 1 µg/well of virus-like particles (VLP)		
	SUDV VLP	EBOV VLP	MARV VLP
10.0000	2.325	0.257	0.056
3.1620	2.320	0.122	0.048
1.0000	2.348	0.077	0.047
0.3160	2.334	0.053	0.046
0.1000	2.106	0.048	0.044
0.0320	1.576	0.049	0.046
0.0100	0.821	0.050	0.050
0.0030	0.372	0.107	0.110
0.0010	0.160	0.061	0.063
0.0000	0.096	0.054	0.051
0.0000	0.076	0.070	0.059
Mean OD 650 nm			

VLPs were diluted to 10 µg/mL in PBS for plate coating. Anti-SUDV GP mouse mAb 16F6 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 substrate. OD₆₅₀ is reported above.