

Mouse anti-SUDV GP mAb (16F6)

Catalog #: 0280-001

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/ Target:

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

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

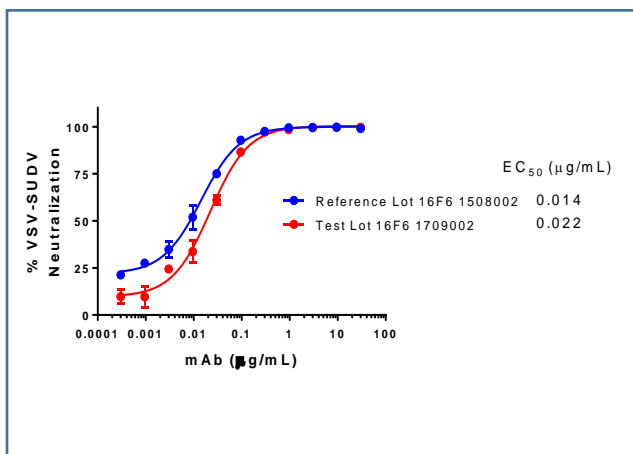
ELISA: Assay-dependent dilution

WB: Not recommended

Applications

Neutralization Data:

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 22 ng/mL of 16F6 lot 1709002 reduced infectivity of SUDV-VSV by 50% and 1 µg/mL of 16F6 neutralized 100%.



ELISA Data:

VLP's were diluted to 10 µg/mL in PBS and coated on MaxiSorp™ plates. Recombinant glycoproteins (rGPΔTM) with His-tag were diluted to 1 µg/mL in PBS and coated on Ni-NTA HisSorb™ plates. 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 below.

16F6 conc. (µg/mL)	Coating Antigen: 10 µg VLP/mL or 1 µg VLP/well			Coating Antigen: 1 µg rGPΔTM/mL or 100 ng rGPΔTM/well		
	SUDV	EBOV	MARV	SUDV	EBOV	MARV
10.0000	1.800	0.108	0.065	3.447	0.353	0.360
3.1623	1.794	0.150	0.066	3.405	0.292	0.170
1.0000	1.753	0.079	0.075	3.383	0.074	0.098
0.3162	1.723	0.357	0.072	3.368	0.062	0.074
0.1000	1.385	0.058	0.087	3.004	0.054	0.065
0.0316	1.006	0.054	0.107	2.231	0.053	0.077
0.0100	0.469	0.075	0.061	1.243	0.050	0.135
0.0032	0.225	0.066	0.070	0.578	0.058	0.131
0.0010	0.128	0.086	0.085	0.237	0.053	0.057
0.0003	0.120	0.092	0.078	0.118	0.058	0.056
0.0001	0.076	0.101	0.063	0.094	0.063	0.065
0.0000	0.065	0.074	0.074	0.083	0.080	0.061

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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