



IBT BIOSERVICES

21 Firstfield RD * Suite 100
Gaithersburg, MD 20878
877-411-2041
Services@ibtbioservices.com

Anti-ZEBOV GP murine/human chimeric monoclonal antibody (c13C6 FR1)

Catalog #: 0201-023

Lot #: 1401004

Immunogen: Venezuelan equine encephalitis virus replicons encoding Zaire ebolavirus (ZEBOV) glycoprotein (GP) was used to generate the original mouse monoclonal antibody.

Description: A murine / human chimeric IgG produced in *N. benthamiana* and is reactive to ZEBOV GP. The antibody detects GP in virus-like particles (VLP) and recombinant GP without the transmembrane region (rGPdTM).

Supplied: 100 µg is supplied at a concentration of 5.71 mg/mL. No preservative is added.

Purification: Antibody is purified using immobilized protein A.

Clonality: Murine variable, human constant of the IgG1 isotype.

Relevance: The antibody can be used for detection of ZEBOV GP in ELISA. A mixture of all three anti-ZEBOV GP chimeric antibodies was protective against lethal challenge in a nonhuman primate study (Olinger *et al.* PNAS 2012, vol. 109, no. 44, 18030-18035).

Recommended Dilutions:

ELISA: Assay-dependent dilution

WB: Not recommended because this antibody recognizes a conformational epitope.

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

Cross Reactivity: Cross-reactivity was observed against Sudan ebolavirus (SEBOV) VLP and especially against SEBOV rGPdTM. No cross-reactivity against Marburg Virus (MARV) VLP or rGPdTM

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.

ELISA Data:

Antibody (µg/mL)	OD 650		
	ZEBOV VLP @ 10 µg/mL	SEBOV VLP @ 10 µg/mL	MARV VLP @ 10 µg/mL
2.0000	2.4990	0.1890	0.0650
0.6325	2.3640	0.1330	0.0590
0.2000	1.8630	0.0810	0.0510
0.0632	0.8470	0.0580	0.0500
0.0200	0.3810	0.0600	0.0550
0.0063	0.2260	0.0580	0.0560
0.0020	0.1190	0.0530	0.0520
0.0006	0.0710	0.0540	0.0590
0.0002	0.0650	0.0560	0.0560
0.0000	0.0547	0.0556	0.0547

Antibody (µg/mL)	OD 650		
	ZEBOV rGPdTM @ 1 µg/mL	SEBOV rGPdTM @ 1 µg/mL	MARV rGPdTM @ 1 µg/mL
2.0000	3.6210	2.9810	0.0800
0.6325	3.5950	2.3230	0.0460
0.2000	3.4970	1.2920	0.0510
0.0632	3.0130	0.5570	0.0870
0.0200	2.1020	0.2120	0.0670
0.0063	0.9760	0.0970	0.0540
0.0020	0.4050	0.0700	0.0490
0.0006	0.1630	0.0500	0.0570
0.0002	0.0820	0.0540	0.0670
0.0000	0.0528	0.0555	0.0484

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. rGPdTM proteins were diluted to 1 µg/mL in PBS. Anti-ZEBOV GP chimeric antibody was serially diluted semi-log from 2.0 µg/mL and incubated on the coated plates. Washed plates were detected with anti-human IgG-HRP conjugate and TMB substrate. OD₆₅₀ is reported above.

Additional testing results:

Test Method	Result
Endotoxin	0.39 EU/mg
Bioburden	0 CFU/mL
Size Exclusion HPLC	84.8% monomer 3.8% High Molecular Weight 11.4% Low Molecular Weight
Residual Host Cell DNA	Below limit of detection
Residual Host Cell Protein	16 ng/mL

Intended for research use only, not for human, therapeutic, or diagnostic applications.

The buyer cannot sell or otherwise transfer this product for Commercial Purposes without written approval of Integrated BioTherapeutics, Inc.

Copyright 2014. Integrated BioTherapeutics, Inc. All rights reserved.