



# IBT BIOSERVICES

4 Research Court, Suite 300  
Rockville, MD 20850  
877-411-2041  
Services@ibtbioservices.com

## Chimeric anti-EBOV GP monoclonal antibody (c13C6 FR1)

**Catalog #:** 0201-023

**Lot #:** 1708001

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

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

**Supplied:** 100 µg is supplied at a concentration of 2.456 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 EBOV GP in ELISA. A mixture of all three anti-EBOV 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 (SUDV) VLP and especially against SUDV rGPΔTM. No cross-reactivity against Marburg Virus (MARV) VLP or rGPΔTM.

### 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](http://www.ibtbioservices.com) for more details.

### ELISA Data:

Antibody (µg/mL)	OD 650		
	EBOV VLP @ 10 µg/mL	SUDV VLP @ 10 µg/mL	MARV VLP @ 10 µg/mL
10.0000	3.769	2.023	0.139
3.1623	3.837	1.789	0.132
1.0000	3.722	1.285	0.137
0.3162	3.608	0.850	0.146
0.1000	3.276	0.437	0.143
0.0316	2.687	0.186	0.148
0.0100	1.678	0.103	0.151
0.0032	0.749	0.072	0.143
0.0010	0.348	0.062	0.144
0.0003	0.158	0.071	0.173
0.0001	0.128	0.099	0.145

Antibody (µg/mL)	OD 650		
	EBOV rGPΔTM @ 1 µg/mL	SUDV rGPΔTM @ 1 µg/mL	MARV rGPΔTM @ 1 µg/mL
10.0000	3.583	3.206	0.078
3.1623	4.000	3.100	0.077
1.0000	3.970	2.556	0.063
0.3162	3.892	1.805	0.079
0.1000	3.477	0.857	0.081
0.0316	2.790	0.381	0.096
0.0100	1.759	0.169	0.091
0.0032	0.813	0.107	0.093
0.0010	0.350	0.093	0.110
0.0003	0.169	0.105	0.078
0.0001	0.111	0.085	0.078

VLPs and rGPΔTM proteins were diluted in PBS to 10 µg/mL and 1 µg/mL, respectively. Anti-EBOV GP chimeric antibody was serially diluted semi-log from 10 µg/mL and incubated on the coated plates. Washed plates were detected with anti-human IgG-HRP conjugate and TMB substrate. OD<sub>650</sub> is reported above.

### Additional testing results:

Test Method	Result
Endotoxin	0.04 EU/mg
Bioburden	0 CFU/mL
Size Exclusion HPLC	91.6% monomer 3.5% High Molecular Weight 4.9% Low Molecular Weight
Residual Host Cell DNA	0.41 ng/mg
Residual Host Cell Protein	Below limit of detection

**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 2017. Integrated BioTherapeutics, Inc. All rights reserved.**