



# IBT BIOSERVICES

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## Mouse anti-MMARV GPdTM mAb (5C1)

**Catalog #:** 0203-023

**Lot #:** 1205003

**Immunogen:** purified recombinant Lake Victoria Marburgvirus Musoke strain glycoprotein lacking the transmembrane region (rMMGPdTM).

**Description:** Protein A purified mouse monoclonal antibody reactive to MMARV GP. The antibody detects GP in virus-like particles (VLP) and recombinant MMARV GP without the transmembrane region (rMMGPdTM).

**Supplied:** 100 µg is supplied in PBS at a concentration of 2.88 mg/mL. No preservative is added. Fetal bovine serum was used in the production of the monoclonal antibody; a small amount of bovine IgG may have co-purified with the antibody upon purification with Protein A and thus may be present.

**Purification:** Antibody is purified using immobilized protein A.

**Clonality:** Monoclonal of the IgG<sub>1</sub> isotype

**Relevance:** The antibody can be used for detection of MMARV GP.

### Recommended Dilutions:

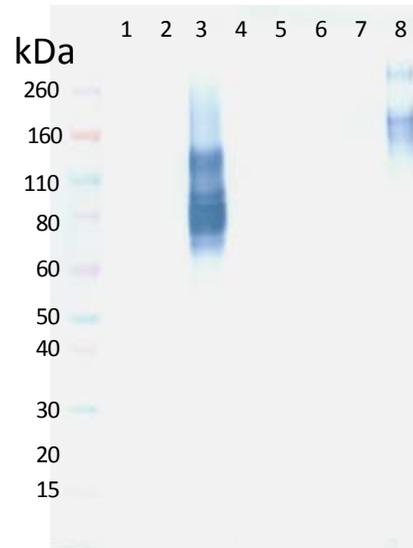
**ELISA:** Assay-dependent dilution. Good detection of VLP and rGPdTM is observed with 2 µg/mL of antibody.

**WB:** Assay-dependent dilution. Internal QC demonstrates good detection when using 5C1 mAb at a use dilution of 0.5 µg/mL.

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

**Cross Reactivity:** no cross-reactivity was observed to Zaire Ebolavirus GP (ZEBOV) or Sudan ebolavirus (SEBOV) GP expressed in virus like particles and recombinant GP protein without the transmembrane region or without the mucin-like domain. It is not known whether this antibody cross reacts with GP of Marburgvirus strains other than Musoke.

### Western Blot Data:



Western blot was detected under denatured and reduced conditions with anti-MMARV GP 5C1 at 0.5 µg/mL and visualized using an anti-Mouse HRP conjugate and TMB Membrane substrate. GP is visualized in MMARV VLP (lane 3) but not in the ZEBOV or SEBOV VLP (lanes 1, 2). No detection of ZEBOV or SEBOV rGPdTM expressed in insect cells is observed (lanes 4, 5) or recombinant ZEBOV or SEBOV GPdTM expressed in mammalian cells (lanes 6,7). Recombinant MMARV GPdTM is detected (lane 8).

### Related Products:

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