



IBT BIOSERVICES

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Rabbit anti-Marburgvirus (MARV) VLP pAb

Catalog #: 04-0005

Lot #: MMIG201001IBT

Immunogen: MARV (Musoke strain) Virus-like Particles (VLPs) containing glycoprotein (GP) Nucleoprotein (NP), and viral protein (VP40).

Description: Protein A purified rabbit polyclonal antibody reactive to MARV VLP raised in New Zealand white rabbits.

Supplied: 0.5 mg of antibody is supplied in PBS at a concentration of 5.75 mg/mL. 0.01% Sodium azide has been added.

Clonality: Polyclonal

Relevance: the filovirus Marburgvirus is a Category A (NIAID) and HHS select agent.

Recommended Dilutions:

ELISA: Assay-dependent dilution.

WB: Assay-dependent dilution

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

Cross Reactivity: Historical data showed some cross-reactivity with Ebola Virus (EBOV) and Sudan Virus (SUDV) VLP's, most likely due to antibodies against Baculovirus proteins since the VLP's were expressed in SF9-Baculovirus system.

ELISA Data:

| IgG Dilution 1:X | IgG + MMARV Antigen | IgG + ZEBOV Antigen |
|------------------|---------------------|---------------------|
| 1000 | 3.30 | 2.66 |
| 3162 | 3.07 | 1.80 |
| 10000 | 2.68 | 0.89 |
| 31623 | 1.87 | 0.37 |
| 100000 | 0.99 | 0.14 |
| 316228 | 0.43 | 0.05 |
| 1000000 | 0.17 | 0.02 |

- Antigen is coated on ELISA plates overnight.
- Add 200µl blocking buffer then wash wells with PBST.
- Antiserum is diluted semi-log.
- Incubate antibody for 2 hour.
- Wash unbound antibodies and add HRP-conjugated anti-rabbit IgG.
- Wash plates and add substrate to develop color for 20 minutes.
- Read absorbance at 650nm. Amount of color is directly proportional to amount of antibodies.

Western Blot

- Antiserum recognizes Marburg musoke glycoprotein, nucleoprotein, and VP40

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

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