

## AibGenesis™ Mouse Anti-Maize-Associated Pteridovirus Monoclonal Antibody (CT4844)

Cat. No.: VRS-0724-YT886

This product is for research use only and is not approved for use in humans or in clinical diagnosis.

### Product Overview

|                  |        |
|------------------|--------|
| Clone            | CT4844 |
| Host Species     | Mouse  |
| Antibody Isotype | IgG    |

### Product Properties

|               |                                        |
|---------------|----------------------------------------|
| Purity        | >95%                                   |
| Purification  | Protein A or G affinity chromatography |
| Concentration | Lot specific                           |

### Packaging, Storage & Formulations

|              |                                                                                                                                    |
|--------------|------------------------------------------------------------------------------------------------------------------------------------|
| Form         | Liquid, please specify if lyophilized powder is required.                                                                          |
| Formulation  | PBS (pH 7.4) without any preservative, please specify if any additional requirements.                                              |
| Preservative | Preservative-free, please specify if any additional requirements.                                                                  |
| Storage      | Store at 4°C for short term. Store at -20°C for long term. Avoid repeated freeze/thaw cycles. Refer to the COA file for specifics. |

### Applications

|                   |                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application       | ELISA                                                                                                                                                                                                                                                                                                                                                              |
| Application Notes | The antibody is screened by ELISA using the synthetic peptide that corresponds to a partial sequence of Maize-Associated Pteridovirus as the capture antigen. Additional applications have not been validated. It is recommended that the end users validate other applications and determine optimal concentrations/dilution under their experimental conditions. |

## Other Product Details

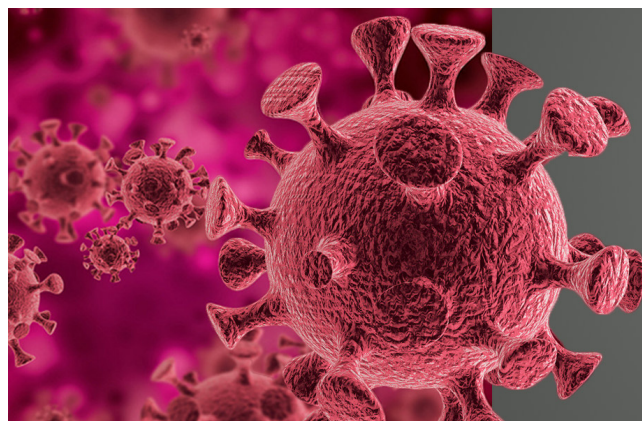
|           |                  |
|-----------|------------------|
| Type      | Primary Antibody |
| Clonality | Monoclonal       |
| ProAb     | Made to order    |

## Virus Details

|                      |                                                                       |
|----------------------|-----------------------------------------------------------------------|
| Virus Classification | Positive-sense single-stranded RNA                                    |
| Virus Family         | <i>Mayoviridae</i>                                                    |
| Virus Genus          | <i>Pteridovirus</i>                                                   |
| Species              | <i>Pteridovirus maydis</i>                                            |
| Accession number     | <a href="#">RN A1: MK112502</a> ; <a href="#">RN A2: MK112503</a> ;   |
| RefSeq number        | <a href="#">R NA1: NC_055448</a> ; <a href="#">R NA2: NC_055447</a> ; |
| Virus Abbrev         | MaPV                                                                  |
| Virus Name           | Maize-Associated Pteridovirus                                         |
| Genome Composition   | ssRNA(+)                                                              |

## Target

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Introduction | Maize-Associated Pteridovirus, as a member of the Pteridovirus genus in the family Mayoviridae, is a plant virus that infects maize, causing significant agricultural concerns. The virus has a single-stranded RNA genome encapsulated in an icosahedral capsid. Its transmission occurs via insect vectors like leafhoppers or through mechanical means like farming tools, increasing the likelihood of spreading in maize fields. Upon infection, maize plants exhibit symptoms such as yellowing, mottling, stunting, and reduced yield, impacting crop productivity. |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



### AibGenesis™

is an advanced AI-driven platform designed to create novel antibody sequences with unprecedented speed and precision. By integrating deep learning, structure prediction, and comprehensive immunological datasets, **AibGenesis™** intelligently designs antibodies optimized for affinity, stability, and developability. The platform generates antibody products that support basic scientific research, drug development, and diagnostic applications.