

## AibGenesis™ Mouse Anti-Pepper Yellow Mosaic Virus Monoclonal Antibody (CT1110)

Cat. No.: VRS-0324-YT1110

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

### Product Overview

|                    |                            |
|--------------------|----------------------------|
| Clone              | CT1110                     |
| Host Species       | Mouse                      |
| Antibody Isotype   | IgG                        |
| Species Reactivity | Pepper Yellow Mosaic Virus |

### 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 corresponding to a partial sequence of Pepper Yellow Mosaic Virus as the capture antigen. Additional applications have not been validated. It is recommended that the end users validate the |

her applications and determine optimal concentrations/dilution under their experimental conditions.

## Other Product Details

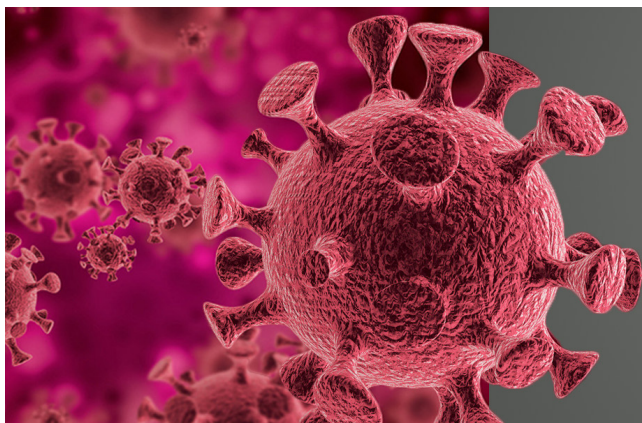
|           |                  |
|-----------|------------------|
| Type      | Primary Antibody |
| Clonality | Monoclonal       |
| ProAb     | Made to order    |

## Virus Details

|                      |                                    |
|----------------------|------------------------------------|
| Virus Classification | Positive-sense single-stranded RNA |
| Virus Family         | <i>Potyviridae</i>                 |
| Virus Genus          | <i>Potyvirus</i>                   |
| Species              | <i>Pepper yellow mosaic virus</i>  |
| Accession number     | <a href="#">AB 541985</a>          |
| RefSeq number        | <a href="#">N C 014327</a>         |
| Virus Abbrev         | PepYMV                             |
| Virus Name           | Pepper Yellow Mosaic Virus         |
| Genome Composition   | ssRNA(+)                           |

## Target

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Introduction | Pepper Yellow Mosaic Virus (PepYMV) is a plant virus belonging to the Potyvirus genus in the Potyviridae family. This virus primarily infects pepper ( <i>Capsicum</i> species) plants, leading to significant economic losses in pepper cultivation. PepYMV is transmitted by aphids in a non-persistent manner, meaning that the aphids can easily acquire the virus from infected plants and transmit it to healthy plants in a short period of time. Symptoms of Pepper Yellow Mosaic Virus include yellow mosaic patterns on the leaves, mottling, vein clearing, and overall stunted growth. Severe infections can lead to yield reductions and fruit deformities, impacting the quality and market value of the pepper crop. |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



## 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.