

AibGenesis™ Mouse Anti-Tomato Mosaic Severe Dwarf Virus Monoclonal Antibody (CT1450)

Cat. No.: VRS-0324-YT1450

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

Product Overview

Clone	CT1450
Host Species	Mouse
Antibody Isotype	IgG
Species Reactivity	Tomato Mosaic Severe Dwarf 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 Tomato Mosaic Severe Dwarf Virus as the capture antigen. Additi

onal 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

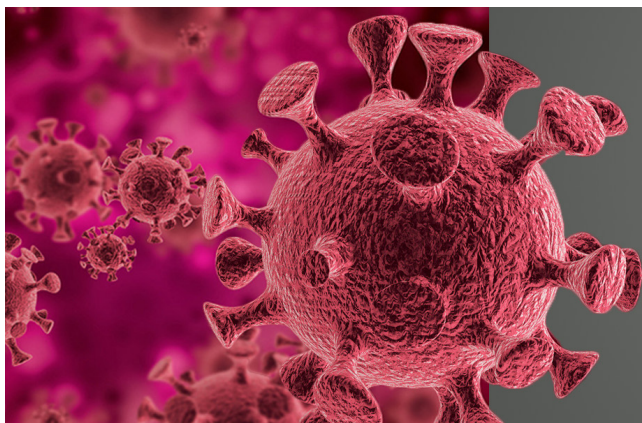
Type	Primary Antibody
Clonality	Monoclonal
ProAb	Made to order

Virus Details

Virus Classification	Single-stranded positive-sense DNA virus
Virus Family	<i>Geminiviridae</i>
Virus Genus	<i>Begomovirus</i>
Species	<i>Tomato mosaic severe dwarf virus</i>
Accession number	DNA-A: MN 147863 ; DNA-B: MN 147864
RefSeq number	DNA-A: N C 055587 ; DNA-B: N C 060090
Virus Abbrev	ToMSDV
Virus Name	Tomato Mosaic Severe Dwarf Virus
Genome Composition	ssDNA(+)

Target

Introduction	Tomato Mosaic Severe Dwarf Virus (ToMSDV) is a plant virus that infects several plant species, including tomatoes and peppers. It belongs to the Begomovirus genus in the Geminiviridae family. ToMSDV causes severe symptoms in infected plants, including stunting, leaf curling, mosaic patterns on leaves, and overall reduced plant size and vigor. These symptoms can significantly impact plant productivity and yield. ToMSDV is primarily transmitted by whiteflies, which feed on infected plant sap and then spread the virus to healthy plants. Once a plant is infected, the virus can rapidly spread within and among plant populations, especially in regions where whitefly populations are high.
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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.