

AibGenesis™ Mouse Anti-Maize White Line Mosaic Virus Monoclonal Antibody (CT4843)

Cat. No.: VRS-0724-YT885

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

Product Overview

Clone	CT4843
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 White Line Mosaic Virus 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

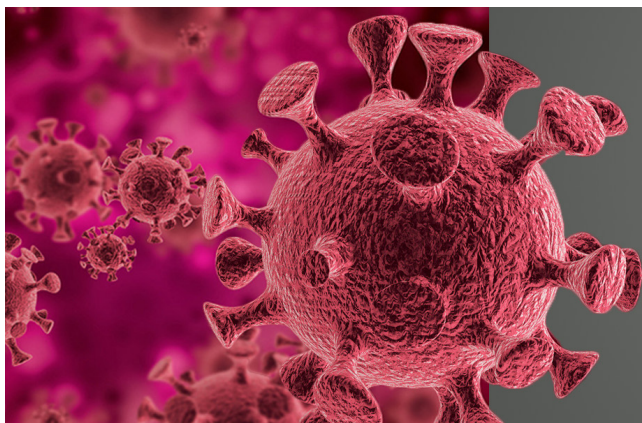
Type	Primary Antibody
Clonality	Monoclonal
ProAb	Made to order

Virus Details

Virus Classification	Positive-sense single-stranded RNA
Virus Family	<i>Tombusviridae</i>
Virus Subfamily	<i>Procedovirinae</i>
Virus Genus	<i>Aureusvirus</i>
Species	<i>Aureusvirus zeae</i>
Accession number	EF 589670 ;
RefSeq number	N C_009533 ;
Virus Abbrev	MWLMV
Virus Name	Maize White Line Mosaic Virus
Genome Composition	ssRNA(+)

Target

Introduction	Maize White Line Mosaic Virus (MWLMV) is a plant virus that belongs to the Aureus virus genus in the Tombusviridae family. This virus primarily infects maize plants, causing distinctive symptoms such as white streaks or lines along the veins of the leaves. MWLMV is transmitted through the soil and by insect vectors, leading to the rapid spread of the virus within maize fields. The presence of Maize White Line Mosaic Virus can significantly impact maize yields, affecting both the quantity and quality of the crop. Infected plants may exhibit stunted growth, reduced kernel development, and overall decreased productivity. Farmers often implement control measures such as crop rotation, using virus-free seeds, and pest management strategies to minimize the spread of MWLMV.
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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.