

AibGenesis™ Mouse Anti-Lettuce Necrotic Leaf Curl Virus Monoclonal Antibody (CT4772)

Cat. No.: VRS-0724-YT814

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

Product Overview

Clone	CT4772
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 Lettuce Necrotic Leaf Curl 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

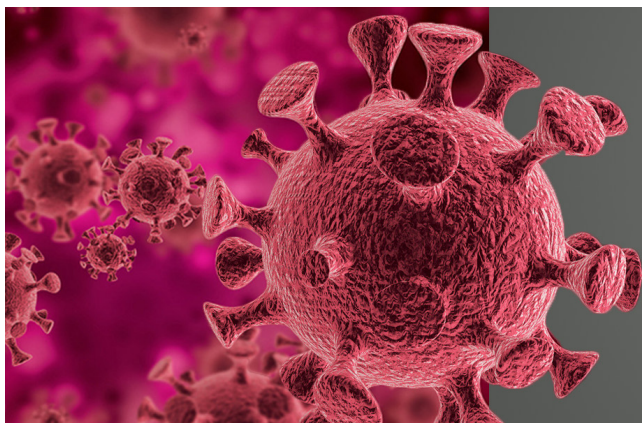
Type	Primary Antibody
Clonality	Monoclonal
ProAb	Made to order

Virus Details

Virus Classification	Positive-sense single-stranded RNA
Virus Family	<i>Secoviridae</i>
Virus Genus	<i>Torradovirus</i>
Species	<i>Torradovirus lactucae</i>
Accession number	RN A1: KC855266 ; RN A2: KC855267 ;
RefSeq number	R NA1: NC_035214 ; R NA2: NC_035219 ;
Virus Abbrev	LNLCV
Virus Name	Lettuce Necrotic Leaf Curl Virus
Genome Composition	ssRNA(+)

Target

Introduction	Lettuce Necrotic Leaf Curl Virus (LNLCV) is a plant pathogenic virus that belongs to the Torradovirus genus in the family Secoviridae. This virus has a single-stranded RNA genome and is transmitted by whiteflies (<i>Bemisia tabaci</i>) in a persistent manner. LNLCV infects lettuce plants, causing symptoms such as leaf curling, necrosis, stunting, and reduced yield. There is no specific treatment for LNLCV infection in lettuce plants. Management strategies include using virus-free planting material, controlling whitefly populations through insecticide applications, and practicing crop rotation to reduce virus inoculum. Additionally, monitoring and early detection of virus-infected plants can help in preventing the spread of the disease to healthy plants. Research efforts are ongoing to develop resistant lettuce varieties to combat LNLCV and other related viruses.
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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.