

AibGenesis™ Mouse Anti-Wheat Streak Mosaic Virus Monoclonal Antibody (CT5838)

Cat. No.: VRS-0724-YT1880

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

Product Overview

Clone	CT5838
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 Wheat Streak 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

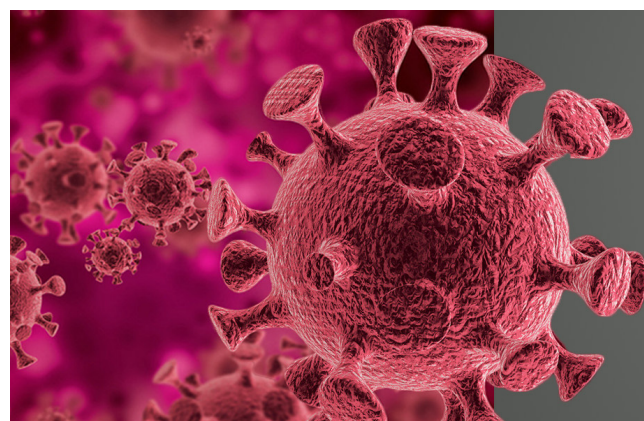
Type	Primary Antibody
Clonality	Monoclonal
ProAb	Made to order

Virus Details

Virus Classification	Positive-sense single-stranded RNA
Virus Family	<i>Potyviridae</i>
Virus Genus	<i>Tritimovirus</i>
Species	<i>Wheat streak mosaic virus</i>
Accession number	AF 057533 ;
RefSeq number	N C 001886 ;
Virus Abbrev	WSMV
Virus Name	Wheat Streak Mosaic Virus
Genome Composition	ssRNA(+)

Target

Introduction	Wheat streak mosaic virus (WSMV) is a plant virus that belongs to the Tritimovirus genus in the Potyviridae family. Its genome consists of a single-stranded positive-sense RNA molecule. WSMV is primarily transmitted by the wheat curl mite (<i>Aceria tosichella</i>) and can also spread through infected plant debris, seeds, and by mechanical means. This virus infects various cereal crops like wheat, barley, and corn. It causes symptoms such as streaks and mottling on leaves, stunting, and reduced yields. There is no specific treatment for WSMV, so prevention is key in managing the disease. Farmers can employ strategies like planting resistant cultivars, using insecticides to control the mite vector, and practicing good sanitation measures to reduce the spread of the virus.
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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.