

AibGenesis™ Mouse Anti-Beet Pseudoyellows Virus ORF 2 Monoclonal Antibody

Cat. No.: VRS-0124-YT3186

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

Product Overview

Target	ORF 2
Specificity	This antibody is specific for ORF 2 of Beet pseudoyellows virus.
Clone	TF0398
Host Species	Mouse
Antibody Isotype	IgG
Species Reactivity	Beet pseudoyellows virus

Product Properties

Immunogen	Synthetic peptide corresponding to partial sequence of ORF 2.
Purity	>95%

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.

Applications

Application	ELISA
Application Notes	The antibody is screened by ELISA using the synthetic peptide that corresponds to a partial sequence of Beet pseudoyellows virus ORF 2 as the capture antigen. Additional applications have not been validated. It is recommended that the end users va

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

Other Product Details

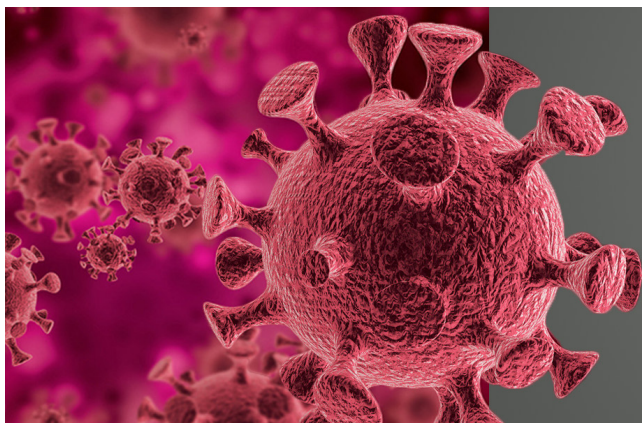
Type	Primary Antibody
Clonality	Monoclonal
ProAb	Made to order

Virus Details

Virus Classification	Positive-sense single-stranded RNA Virus
Virus Family	<i>Closteroviridae</i>
Virus Genus	<i>Crinivirus</i>
Species	<i>Beet pseudoyellows virus</i>
Accession number	RNA1: AY 330918 ; RNA2: AY 330919
RefSeq number	RNA1: N C 005209 ; RNA2: N C 005210
Virus Name	Beet pseudoyellows virus
Virus Alternatives Names	Beet pseudoyellows virus; BPYV
Genome Composition	ssRNA(+)

Target

Introduction	The virus was first recognised by James E. Duffus of the United States Department of Agriculture, and reported in 1975 under the title 'A new type of whitefly-transmitted disease a link to the aphid-transmitted viruses'. Beet (<i>Beta vulgaris</i>) in a research greenhouse unexpectedly presented symptoms characteristic of the aphid-vector virus Beet yellows virus, despite no aphids being present. Instead, greenhouse whiteflies (<i>Trialeurodes vaporariorum</i>) were present and determined to be the vector. The presumed new species of virus was designated 'Beet pseudo-yellows virus' (note the hyphen, omitted in the currently accepted name). Further investigation revealed the virus typically causes stunting, interveinal yellowing, and/or chlorotic spotting in its hosts, and that at least an additional 36 species of plants from various families are susceptible to infection.
Target Alternative Names	BPYVs1_gp2, ORF 2
Gene ID	2650868
UniProt ID	Q6VRA7



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.