

Product Data Sheet

Cat # TSWV11-A

Rabbit Anti-Tomato Spotted Wilt Virus Nucleoprotein Antibody

Size: 50 ug

Tomato Spotted Wilt Virus or TSWV is transmitted by thrips and causes serious losses in economically important crops and is considered one of the most economically devastating plant viruses in the world. There is estimated to be over one thousand different hosts for TSWV. The symptoms of TSWV vary from host to host. Common symptoms include stunting, ringspots, and necrosis of leaves. Diagnosis is typically done through ELISA or lateral flow immunoassay which use antibodies generated against the Nucleoprotein or the whole virus purified from infected plants.

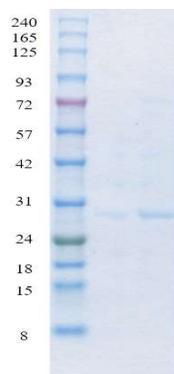
Source of Immunogen

Host: Rabbit

Clonality: Polyclonal

Purification: Antigen affinity chromatography

SDS-PAGE (1& 2 ug)



Western Blot (5 ng)



Tomato Spotted Wilt Virus Nucleoprotein (Uniprot: P26000) was expressed in *E. coli*. It contains a c-terminal His-tag. The Nucleoprotein is expressed as a full-length protein. It migrates as a band of approximately 29 kDa in reducing/denaturing conditions.

Western Blot: 5 ng, 1 ng, and 0.2 ng of total protein were loaded into an 'Any Kd' SDS-PAGE Gel (Biorad). 1 ug/ml of the TSWV11-A was incubated for 1 hour at room temperature. Goat anti-Rabbit IgG HRP was added and incubate for 1 hour. The blot was washed and incubated with an insoluble TMB substrate and developed for 15 minutes. The antibody had a visual sensitivity of ~1 ng of total protein using a colormetric system.

Form & Storage of Antibodies

Affinity purified IgG

□ Concentration: 0.5 mg/ml Volume: 200 ul
Supplied in PBS pH 7.4, contains no preservative

□ **Lyophilized powder**

Reconstitute powder in 200 ul distilled water to 0.5 mg/ml

Storage

Short-term: 1 month at 4°C

Long-term: at -20°C or below in suitable aliquots after reconstitution. Glycerol may be added to a final concentration of 50% and the antibody can be stored un-aliquoted at -20°C.

Stability: 6-12 months at -20°C or below.

Recommended Usages:

Western Blotting: 0.5-2 ug/ml. Expected band size: ~29 kDa

ELISA: Assay dependent concentration. Typically, ranges from 0.1-2.0 ug/ml as a capture or detection antibody.

Cross reactivity: Tomato spotted wilt virus exhibits <80% homology across various TSWV strains. 77% with Chrysanthemum stem necrosis virus, 56% Impatiens Necrotic spot Virus, 37% Bean necrotic mosaic virus, 34% Polygonum ringspot virus, and 33% Peanut bud necrosis virus

This product is for in vitro research use only.

Related Material available for ADI

Catalog#	Description
	Antibodies and kits for Tobacco Mosaic Virus, Cucumber Mosaic Virus, Potato Virus X, Potato Virus Y, and Impatiens Necrotic Spotted Virus are available as well from ADI.

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