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Anti-Potato virus V coat protein [scFv40 (SCR40)] Standard Size Ab03663-23.0

Isotype and Format: Rabbit IgG, Kappa

Clone Number: scFv40 (SCR40)

Alternative Name(s) of Target: PVV; Potato virus V; CP; capsid protein; coat protein; Potato virus V capsid protein; PVXscFv40

UniProt Accession Number of Target Protein: Q9ICU1

Published Application(s): WB, ELISA

Published Species Reactivity: Potato virus V (PVV)

Immunogen: The original antibody was raised against a continuous epitope (cryptotope) on disassembled coat protein of potato virus V.

Specificity: This antibody binds a continuous epitope (cryptotope) on the coat protein of Potato virus V. Potato virus V (PVV) is a member of the economically significant plant virus genus Potyvirus, family Potyviridae. The virus has flexuous filamentous particle which are approximately 760 nm in length and have a positive-sense RNA genome of ~9851-nucleotides that has a covalently linked 5'-terminal viral protein (VPg) and a 3'-terminal poly A. This strain was found to have deviated from Potato virus Y (PVY) and has subsequently been reported in potato cultivars in Andean region of South America and parts of Europe including Netherlands, Finland, Scotland, Norway and Sweden. PVV is transmitted in a non-persistent manner by aphids.

Application Notes: The binding characterization of this antibody to potato virus V coat protein was done using ELISA. This antibody does not cross react with potato virus Y and potato virus X strains. This antibody does not bind whole PVV virions in plate-trapped antigen ELISA. This antibody was capable of detecting potato virus V from infected leaf tissues in a western blot (PMID: 10648933).

Antibody First Published in: Hendy et al. Rapid production of single-chain Fv fragments in plants using a potato virus X episomal vector. J Immunol Methods. 1999 Dec 10;231(1-2):137-46. [PMID:10648933](#)

Note on publication: Describes the use of PVX vector for the transient expression of an scFv antibody against coat protein of Potato virus V.

Product Form

Size: 100 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In:

PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.