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Anti-Potato virus Y NIa [22-19] Bulk Size Ab03666-23.0-BT

Isotype and Format: Rabbit IgG, Kappa

Clone Number: 22-19

Alternative Name(s) of Target: PVY; PVY NIa; NIa; Potato virus Y; Genome polyprotein; Nuclear inclusion a; aphid-borne virus; 22-1; Hybridoma 22

UniProt Accession Number of Target Protein: P22602

Published Application(s): ELISA, IF

Published Species Reactivity: Potato virus Y

Immunogen: The original antibody was generated by immunizing mice with semipurified fraction of potato virus Y (PVY) as antigen.

Specificity: This antibody bind the nuclear inclusion A (NIa) protein of the Potato virus Y (PVY). Potato virus Y is a monopartite, single stranded RNA virus, plant pathogen that infects mainly Solanaceous plants including, potato, tomato, pepper, tobacco and eggplant. There are multiple strains of the virus including the common strain, PVYO, which causes mosaic symptoms in most hosts. The necrotic strains PVYN and PVYNTN both cause a veinal necrosis on tobacco; PVYNTN also causes a tuber necrosis in certain potato varieties. This necrosis is referred to as potato tubers necrotic ringspot disease (PTNRD). In general, the necrotic strains tend to cause a more mild mosaic symptom than PVYO in potato. PVY is transmitted in a non-persistent manner by aphids.

Application Notes: This antibody was used for in situ localization of potato virus Y NIa protein using immunofluorescence staining. The staining showed the accumulation of the NIa protein in both nucleus and cytoplasm. The binding characterization of the antibody was done using ELISA (PMID: 16884787). In vivo, this antibody was able to detect different forms of the NIa protein including precursors and cleavage products and also able to inhibit the cleavage of the polyprotein detected in the semipurified NI (PMID: 11556707).

Antibody First Published in: Rouis et al. Inhibition of potato virus Y NIa activity: preparation of monoclonal antibody directed against PVY NI protein that inhibits cleavage of PVY polyprotein. Arch Virol. 2001 Jul;146(7):1297-306. [PMID:11556707](#)

Note on publication: Describes the generation of antibodies directed against PVY NI protein of Potato virus Y.

Product Form

Size:

1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. 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.