



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Anti-Potato virus Y coat protein [42C07] Standard Size Ab03664-1.1

**Isotype and Format:** Mouse IgG1, Kappa

**Clone Number:** 42C07

**Alternative Name(s) of Target:** PVY; Potato virus Y; CP; capsid protein; coat protein; Potato virus Y capsid protein; Potato virus Y ordinary; PVY-O; Potato virus Y necrotic; aphid-borne virus; PVY-T

**UniProt Accession Number of Target Protein:** P22602

**Published Application(s):** IP, WB, ELISA

**Published Species Reactivity:** Potato virus Y (PVY)

**Immunogen:** The original antibody was generated by immunizing BALB/c mice with necrotic strains of Potato virus Y (PVY-T).

**Specificity:** This antibody binds the coat 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 reacted with both PVY-O and PVY-T13 strains of Potato virus Y in an ELISA, microprecipitin and western blots (Oshima et al., 1994). This antibody was also used in a double antibody sandwich ELISA for detection of Potato virus Y in the leaves from plants with necrotic tubers symptoms (PMID: 30831903).

**Antibody First Published in:** Ohshima et al. Molecular cloning and nucleotide sequences of heavy and light chain genes of a monoclonal antibody to potato virus Y coat protein. Ann. Phytopath. Soc. Japan 60: 600-607 (1994). [PMID:](#)

**Note on publication:** Describes the cloning and expression of an antibody generated against coat protein of Potato virus Y.

### 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.