



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Anti-SPLCV Coat protein [scFvF7] Standard Size Ab03662-30.11

This is an scFv fragment with a His tag.

This is a reformatted human scFv antibody, based on the original human scFv format, created for improved compatibility with existing reagents, assays and techniques.

**Isotype and Format:** scFv fragment (His), ScFv

**Clone Number:** scFvF7

**Alternative Name(s) of Target:** Sweet potato leaf curl virus; SPLCV capsid protein; SPLCV coat protein; AV1; V1; capsid protein; coat protein SPLCV-F7

**UniProt Accession Number of Target Protein:** E5G5X2

**Published Application(s):** ELISA

**Published Species Reactivity:** Sweet potato leaf curl virus (SPLCV)

**Immunogen:** The original antibody was isolated from a yeast display library by two rounds of screening against Sweet potato leaf curl virus (SPLCV).

**Specificity:** This antibody recognizes and binds the Sweet potato leaf curl virus (SPLCV), which causes yield losses in sweet potato cultivation. The sweet potato leaf curl virus, a member of the genus Begomovirus, is transmitted by the whitefly (*Bemisia tabaci* Genn.), which is the only natural vector. SPLCV causes symptoms including upward leaf curling in young stage and is responsible for declining yields around the world.

**Application Notes:** The binding characterization of this antibody for sweet potato leaf curl virus (SPLCV) coat protein was done using ELISA. This antibody can also bind SPLCV-infected sweet potato samples of leaves and infected phloem tissue. This antibody was also expressed as a bivalent scFv protein to increase antigen-binding affinity (PMID: 32415170).

**Antibody First Published in:** Cho et al. Development of novel detection system for sweet potato leaf curl virus using recombinant scFv. *Sci Rep.* 2020 May 15;10(1):8039. [PMID:32415170](#)

**Note on publication:** This paper describes the isolation of two scFv antibodies directed against sweet potato leaf curl virus.

### Product Form

**Size:** 100 µg Purified antibody.

**Purification:** Purified by Immobilized Metal Affinity Chromatography

**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.