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Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-SPLCV Coat protein [scFvF7] Bulk Size Ab03662-30.11-BT

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: 500 µg Purified antibody in bulk size.

Purification: Purified by Immobilized Metal Affinity Chromatography

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.