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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Cry1 [3H9] Bulk Size Ab03225-30.11-BT

This is an scFv fragment with a His tag.

Isotype and Format: scFv fragment (His), ScFv

Clone Number: 3H9

Alternative Name(s) of Target: Cry1 toxins; Cry1Aa; Cry1Ab; Cry1Ac; Cry1B; Cry1C; Cry1F; Pesticidal crystal protein Cry1Aa; 133 kDa crystal protein; Crystalline entomocidal protoxin; Insecticidal delta-endotoxin CryIA(a); Pesticidal crystal protein Cry1Fa; 134 kDa crystal protein; Insecticidal delta-endotoxin CryIF(a); Pesticidal crystal protein Cry1Ab; 130 kDa crystal protein; Insecticidal delta-endotoxin CryIA(b); Pesticidal crystal protein Cry1Ac; 133 kDa crystal protein; Insecticidal delta-endotoxin CryIA(c)

UniProt Accession Number of Target Protein: Q03746; P0A366; P0A370; P05068; D0EI56; Q93T75

Published Application(s): ELISA

Published Species Reactivity: Bacillus thuringiensis (Bt) bacteria

Immunogen: The original antibody was generated by immunizing Balb/c mice with a mixture of six Cry1 toxins (Cry1Aa, Cry1Ab, Cry1Ac, Cry1B, Cry1C, and Cry1F) followed by antibody library construction and phage display-based selection.

Specificity: The antibody binds to Cry1 toxins (Cry1Aa, Cry1Ab, Cry1Ac, Cry1B, Cry1C, Cry1F). The antibody does not cross react with Cry2A and vip3.

Application Notes: The specificity of the scFv antibody for the six Cry1 toxins was confirmed by ELISA. The scFv fragment was used to establish the double antibody sandwich enzyme-linked immunosorbent assay method (DAS-ELISA) for detecting six Cry1 toxins (Cry1Aa, Cry1Ab, Cry1Ac, Cry1B, Cry1C, and Cry1F). The lowest detectable limits (LOD) and the lowest quantitative limits (LOQ) were 3.14–11.07 and 8.22–39.44 ng mL⁻¹, respectively, with the correlation coefficient higher than 0.997. The average recoveries of Cry1 toxins from spiked rice leaf samples were ranged from 84 to 95%, with coefficient of variation (CV) less than 8.2%, showing good accuracy for the multi-residue determination of six Cry1 toxins in agricultural samples (Dong et al., 2018; PMID: 29484477).

Antibody First Published in: Dong et al. Screening for single-chain variable fragment antibodies against multiple Cry1 toxins from an immunized mouse phage display antibody library. Appl Microbiol Biotechnol. 2018 Apr;102(7):3363-3374. [PMID:29484477](#)

Note on publication: The paper describes the generation and characterization of the antibody.

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.