

Anti-Fusarium [FvCA4] Standard Size Ab01005-1.6

This is a Fab fragment with a his-tag.

This chimeric mouse Fab was made using the variable domain sequences of the original Chicken scFv format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Mouse Fab fragment, His-Tagged, Lambda

Clone Number: FvCA4

Alternative Name(s) of Target:

UniProt Accession Number of Target Protein:

Published Application(s): WB, ELISA, IF

Published Species Reactivity: Fusarium species

Immunogen: White leghorn chickens were immunised by intramuscular injection of a preparation of cell wall-bound proteins isolated from the wh1-2 fungus strain of *F. verticillioides*. Splenocytes were obtained from immunised chickens and used for RNA extraction and cDNA synthesis.

Specificity: FvCA4 was shown to exhibit a high affinity for *F. verticillioides* cell wall-bound proteins using ELISA with both soluble antibody fragment or phage-expressed antibody (Hu et al, 2012). Again shown by ELISA, FvCA4 cross-reacted with several other *Fusarium* species, but not with non-*Fusarium* fungi.

Application Notes: FvCA4 was used in ELISAs, both as soluble scFv fragments and as phage-expressed antibodies, for the detection of purified *F. verticillioides* cell wall-bound proteins and *Fusarium* species from contaminated maize grains. In addition, cell wall-bound proteins were also detected by immunoblotting from several fungal species, not limited to the *Fusarium* genus. Immunofluorescent labelling showed that FvCA4 localised to the cell surface of *F. verticillioides* conidiospores and hyphae.

Antibody First Published in: Hu et al. Generation of a highly reactive chicken-derived single-chain variable fragment against *Fusarium verticillioides* by phage display. *Int J Mol Sci.* 2012;13(6):7038-56.

[PMID:22837678](#)

Note on publication: Describes the generation of 4 anti-*Fusarium* antibodies formatted as scFv fragments, and the further characterisation of the strongest-binding clone FvCA4.

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.