

Anti-1-4 beta-d-galactan [XD3] Standard Size Ab01159-23.0

This full-length, chimeric rabbit antibody was made using the variable domain sequences of the original Mouse scFv format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Rabbit IgG, Kappa

Clone Number: XD3

Alternative Name(s) of Target: 14bdGal; (1→4)-β-d-galactan

UniProt Accession Number of Target Protein:

Published Application(s): ELISA

Published Species Reactivity: *Zinnia elegans*

Immunogen: This antibody was isolated from a phage-display library raised against a cell wall fraction of *Zinnia elegans* xylogenic culture cells. Cell wall fractions were isolated from *Zinnia mesophyll* cells that had been cultured either in a differentiation-inducti

Specificity: This antibody recognises (1→4)-β-d-galactan. The epitope recognised is present on the primary wall of tracheary-element precursor cells, but absent from mature tracheary elements.

Application Notes: Whole-cell ELISA against cultured plant cells has confirmed that this antibody is differentiation-specific, as the epitope recognised by this antibody increased specifically on cells cultured in a differentiation-inductive medium but not on those cultured in a noninductive medium (Shinohara et al, 2002). Equally, this antibody has been shown in ELISA analysis to recognise (1→4)-β-d-galactan in a pectic fraction (Shinohara et al, 2015).

Antibody First Published in: Shinohara et al. Isolation of monoclonal antibodies recognizing rare and dominant epitopes in plant vascular cell walls by phage display subtraction J Immunol Methods. 2002 Jun 1;264(1-2):187-94. [PMID:12191521](#)

Note on publication: Describes the original generation of this antibody, and its characterisation in ELISA analysis.

Product Form

Size: 200 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.