

## Anti-1-4 beta-d-galactan [XD3] Bulk Size Ab01159-23.0-BT

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:** 1 mg Purified antibody in bulk size.

**Purification:** Protein A affinity purified

**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.