



# PLANTPROBES

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## LM10 1,4-xylan

### Quality Control Certificate of Analysis

Catalogue No.: LM10-050

Unit Size: 50 µg/100 µL

Lot No: 1212-10

The LM10 rat monoclonal antibody is a high affinity antibody to (1-4)-β-D-xylosyl residues found in the heteroxylan components of certain plant cell wall polymers. LM10 can recognise unsubstituted and relatively low-substituted xyans in several species. It has no cross-reactivity with wheat arabinoxylan. The LM10 xylan epitope is found widely in the cell walls of many plants.

**Description:** Lyophilised Rat monoclonal protein-G affinity purified antibody specific for xylan.

**Immunogen:** Antibody generated using a neoglycoprotein (xylopentaose-BSA).

**Antibody Isotype:** IgG

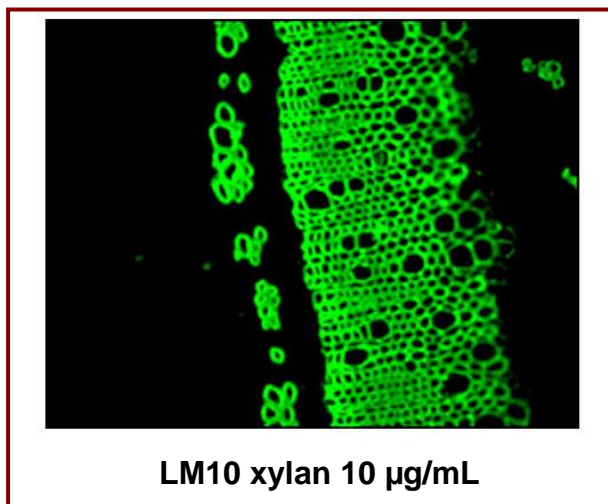
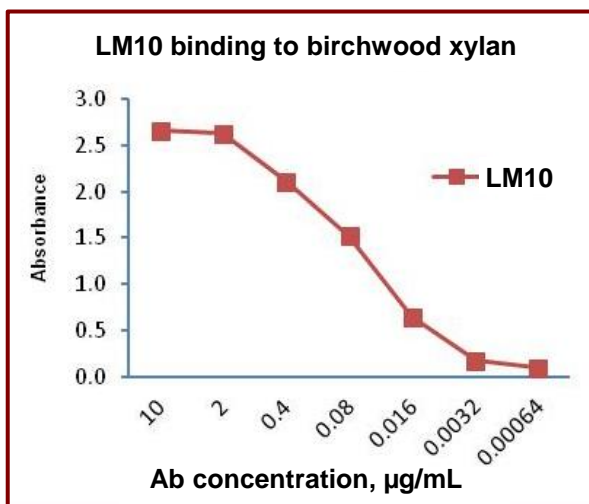
**Antibody Purity:** Protein G Affinity Purified

**Vial Constituents:** Lyophilised monoclonal antibody (50 µg) with stabilizer 20%.

**Storage Instructions:** Lyophilised antibody is stable at 4°C when stored with desiccant. Reconstitute lyophilised powder in 100 µL of 18 MΩ H<sub>2</sub>O, aliquot and store frozen at -80°C for 1 year. Avoid freeze - thaw cycles.

**Tested Applications:** ELISA and IF 10 µg/mL.

**Specificity:** Antibody recognises unsubstituted and relatively low-substituted xyans in several species. It does not bind to wheat arabinoxylan.



**Left:** ELISA titration of LM10 binding to birchwood xylan coated onto a microtitre plate at 50 µg/mL.

**Right:** IF micrograph of the binding of LM10 (10 µg/mL) to secondary cell walls of tobacco stem.

**LM10 Reference:** McCartney *et al.* (2005) Monoclonal antibodies to plant cell wall xyans and arabinoxylans. *J Histochem Cytochem* 53:543.