

PLANTPROBES

www.plantprobes.net

Email: antibodies@plantprobes.net

2F4

Monoclonal antibody to **HOMOGALACTURONAN**

(Mouse IgG1)

FOR RESEARCH PURPOSES ONLY

Cat. No. PPG1-2F4

SPECIFICITY

The **2F4** monoclonal antibody recognises the homogalacturonan domain of pectic polysaccharides. It binds specifically to a dimeric association of pectic chains through calcium ions. It binds to homogalacturonans with degrees of methyl-esterification (DM) up to 40%.

REFERENCES

- Liners F, Letesson J-J, Didembourg C, Van Cutsem P (1989) Monoclonal antibodies against pectin. Recognition of a conformation induced by calcium. **Plant Physiology** 91: 1419-1424
- Liners F, Thibault J-F, Van Cutsem P (1992) Influence of the degree of polymerization of oligogalacturonates and of esterification pattern of pectin on their recognition by monoclonal antibodies. **Plant Physiology** 99: 1099-1104
- Liners F, Van Cutsem P (1992) Distribution of pectic polysaccharide throughout walls of suspension-cultured carrot cells. An immunocytochemical study. **Protoplasma** 170: 10-21

STORAGE & USE

The product is a sample of hybridoma supernatant and contains 0.1% thimerosal as a preservative. It is shipped at ambient temperature and should be stored at 4°C. Do not freeze.

This antibody DOES NOT work in conventional PBS or TBS buffers. For optimal results, use the following T/Ca/S buffer: Tris-HCl 20 mM pH 8.2, CaCl₂ 0.5 mM, NaCl 150 mM.

The antibody may be used with second stage anti-mouse antibodies labelled with gold, FITC, HRP etc. The antibody can be used at up to a 250-fold dilution of the hybridoma supernatant.