



JIM5 [Anti-Homogalacturonan] Antibody (Lot 190301a)

AB-JIM5

04/19

1. DESCRIPTION:

The JIM5, rat, monoclonal antibody recognises the α -1,4-linked homogalacturonan domain of pectic polysaccharides. It has no known cross-reactivity with other polymers. It can recognise partially methyl esterified epitopes of pectic polysaccharides (homogalacturonan) in several species and also binds unesterified homogalacturonan.

LM19 is recommended for the detection of unesterified homogalacturonan.

From the laboratory of Paul Knox, PhD, University of Leeds.

This product does not contain fetal bovine serum.

2. SPECIFICATIONS:

Antibody Name	JIM5
Antigen	Pectic polysaccharide / Homogalacturonan
Epitope	Partially methyl esterified and unesterified homogalacturonan
Conjugate	Unconjugated
Buffer	Serum-free cell culture supernatant, 0.02% sodium azide
Tested Application	Immunofluorescence (1:10); ELISA (1:10)
Positive Control	Polygalacturonic Acid (from Citrus Pectin) (P-PGACIT)
Clonality	Monoclonal
Isotype	IgG
Host Species	Rat

3. PROPERTIES:

Form	Liquid
Shipping	Shipped at ambient temperature
Storage	Short term stability: 2-8°C Long term stability: Below -10°C (Avoid freeze/thaw cycles)

4. REFERENCES:

Knox, J. P., Linstead, P. J., King, J., Cooper, C. & Roberts, K. (1990). Pectin esterification is spatially regulated both within cell walls and between developing tissues of root apices. *Planta*, **181**, 512-521.

Clausen, M. H., Willats, W. G. & Knox, J. P. (2003). Synthetic methyl hexagalacturonate hapten inhibitors of anti-homogalacturonan monoclonal antibodies LM7, JIM5 and JIM7. *Carbohydr. Res.*, **338(17)**, 1797-800.

Verhertbruggen, Y., Marcus, S. E., Haeger, A., Ordaz-Ortiz, J. J. & Knox, J. P. (2009). An extended set of monoclonal antibodies to pectic homogalacturonan. *Carbohydr Res.*, **344**, 1858-1862.