

ZW00005

JIM5 Antibody for Plant



500µl;1ml

Order	021-34695924 orders@ab-mart.com
Support	400-6123-828 support1@ab-mart.com
Web	www.ab-mart.com.cn

Antibody Name : JIM5

References:

Arabidopsis inflorescence stem expansion glycoprofiling

Isotype : IgG2a

Antibody Type : Monoclonal

Source : Rat

Application

IHC/IF

IF 1:100-1:1000; IHC 1:10-1:50

Immunogen:

Protoplast prepared from suspension-cultured cells

Antigen:

Homogalacturonan

(partially methyl-esterified)

Comments : Carrot (*Daucus carota*)

Form : Hybridoma supernatant

Storage:

Store at 4°C. Stable for 12 months from date of receipt

Epitope Structure for Carbohydrate Antigen:

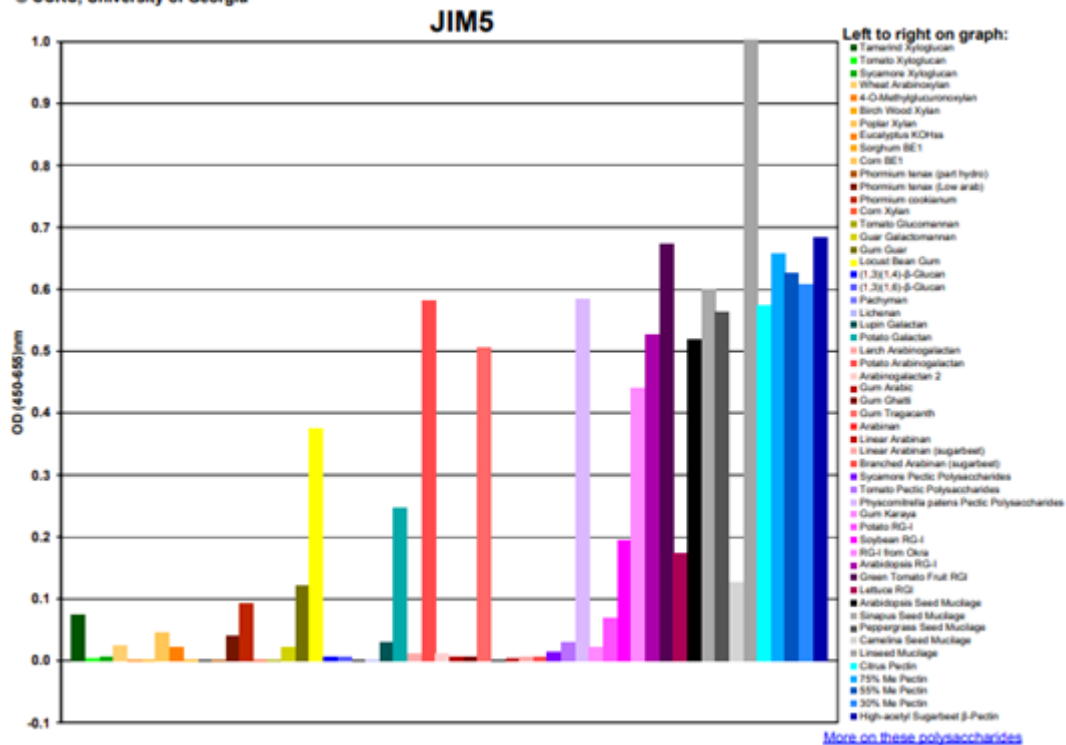
Me(α)GalA1-gt;4(α)GalA1-gt;4(α)GalA1-gt;4(α)GalA1-gt;4(α)GalA1-gt;4(α)MeGalA

Comments:

JIM5 binds to a sparsely methylated homogalacturonan epitope found in the walls of diverse plant species. The epitope structure listed above is the most effective structure identified to date. JIM5 also binds to unesterified homogalacturonan. JIM5 can also be obtained from Plant Probes (<http://www.plantprobes.co.uk/>).

Supplier Name : CarboSource

Comments:



References:

K.A. VandenBosch, D.J. Bradley, J.P. Knox, S. Perotto, G.W. Butcher, and N.J. Brewin. (1989) Common components of the infection thread matrix and the intercellular space identified by immunocytochemical analysis of pea nodules and uninfected roots. *EMBO J.*8:335-342.

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

W.G.T. Willats, G. Limberg, H.C. Buchholt, G.-J. Van Alebeek, J. Benen, T. M.I.E. Christensen, J. Visser, A. Voragen, J.D. Mikkelsen, and J.P. Knox. (2000) Analysis of pectic epitopes recognised by hybridoma and phage display monoclonal antibodies using defined oligosaccharides, polysaccharides, and enzymatic degradation. *Carbohydr.Res.*327:309-320.

M.H. Clausen, W.G.T. Willats, and J.P. Knox. (2003) Synthetic methyl hexagalacturonate hapten inhibitors of anti-homogalacturonan monoclonal antibodies LM7, JIM5 and JIM7. *Carbohydr.Res.*338:1797-1800.

More Comments:

<http://glycomics.crc.uga.edu/wall2/jsp/abdetails.jsp?abnumber=14&abname=LM20>