

Supplemental Table S1: Listing of plant cell wall glycan-directed monoclonal antibodies (mAbs) used for Glycome Profiling analyses (Figure 2 and 3). The groupings of antibodies are based on a hierarchical clustering of ELISA data generated from a screen of all mAbs against a panel of plant polysaccharide preparations^{1,2} that groups the mAbs according to the predominant polysaccharides that they recognize. The majority of listings link to the WallMabDB plant cell wall monoclonal antibody database (<http://www.wallmabdb.net>) that provides detailed descriptions of each mAb, including immunogen, antibody isotype, epitope structure (to the extent known), supplier information, and related literature citations.

Glycan Group Recognized mAb Names

Non-Fucosylated Xyloglucan-1	CCRC-M95 CCRC-M101
Non-Fucosylated Xyloglucan-2	CCRC-M104 CCRC-M89 CCRC-M93 CCRC-M87 CCRC-M88
Non-Fucosylated Xyloglucan-3	CCRC-M100 CCRC-M103
Non-Fucosylated Xyloglucan-4	CCRC-M58 CCRC-M86 CCRC-M55 CCRC-M52 CCRC-M99
Non-Fucosylated Xyloglucan-5	CCRC-M54 CCRC-M48 CCRC-M49 CCRC-M96 CCRC-M50 CCRC-M51 CCRC-M53
Non-Fucosylated Xyloglucan-6	CCRC-M57
Fucosylated Xyloglucan	CCRC-M102 CCRC-M39 CCRC-M106

[CCRC-M84](#)

[CCRC-M1](#)

Xylan-1/XG

[CCRC-M111](#)

[CCRC-M108](#)

[CCRC-M109](#)

Xylan-2

[CCRC-M119](#)

[CCRC-M115](#)

[CCRC-M110](#)

[CCRC-M105](#)

Xylan-3

[CCRC-M117](#)

[CCRC-M113](#)

[CCRC-M120](#)

[CCRC-M118](#)

[CCRC-M116](#)

[CCRC-M114](#)

Xylan-4

CCRC-M154

CCRC-M150

Xylan-5

CCRC-M144

CCRC-M146

CCRC-M145

CCRC-M155

Xylan-6

CCRC-M153

CCRC-M151

CCRC-M148

CCRC-M140

CCRC-M139

CCRC-M138

Xylan-7

CCRC-M160

[CCRC-M137](#)

CCRC-M152

CCRC-M149

Galactomannan-1	CCRC-M75 CCRC-M70 CCRC-M74
Galactomannan-2	CCRC-M166 CCRC-M168 CCRC-M174 CCRC-M175
Acetylated Mannan	CCRC-M169 CCRC-M170
β -Glucan	LAMP BG1
HG Backbone-1	CCRC-M131 CCRC-M38 JIM5
HG Backbone-2	JIM136 JIM7
RG-I Backbone	CCRC-M69 CCRC-M35 CCRC-M36 CCRC-M14 CCRC-M129 CCRC-M72
Linseed Mucilage RG-I	JIM3 CCRC-M40 CCRC-M161 CCRC-M164
Physcomitrella Pectin	CCRC-M98 CCRC-M94
RG-Ia	CCRC-M5 CCRC-M2
RG-Ib	JIM137

[JIM101](#)

[CCRC-M61](#)

[CCRC-M30](#)

RG-Ic

[CCRC-M23](#)

[CCRC-M17](#)

[CCRC-M19](#)

[CCRC-M18](#)

[CCRC-M56](#)

[CCRC-M16](#)

RG-I/Arabinogalactan

[CCRC-M60](#)

[CCRC-M41](#)

[CCRC-M80](#)

[CCRC-M79](#)

[CCRC-M44](#)

[CCRC-M33](#)

[CCRC-M32](#)

[CCRC-M13](#)

[CCRC-M42](#)

[CCRC-M24](#)

[CCRC-M12](#)

[CCRC-M7](#)

[CCRC-M77](#)

[CCRC-M25](#)

[CCRC-M9](#)

[CCRC-M128](#)

[CCRC-M126](#)

[CCRC-M134](#)

[CCRC-M125](#)

[CCRC-M123](#)

[CCRC-M122](#)

[CCRC-M121](#)

[CCRC-M112](#)

[CCRC-M21](#)

[JIM131](#)

[CCRC-M22](#)

[JIM132](#)

[JIM1](#)

	CCRC-M15 CCRC-M8 JIM16
Arabinogalactan-1	JIM93 JIM94 JIM11 MAC204 JIM20
Arabinogalactan-2	JIM14 JIM19 JIM12 CCRC-M133 CCRC-M107
Arabinogalactan-3	JIM4 CCRC-M31 JIM17 CCRC-M26 JIM15 JIM8 CCRC-M85 CCRC-M81 MAC266 PN 16.4B4
Arabinogalactan-4	MAC207 JIM133 JIM13 CCRC-M92 CCRC-M91 CCRC-M78
Unidentified	MAC265 CCRC-M97

References:

1. S. Pattathil, U. Avci, D. Baldwin, A.G. Swennes, J.A. McGill, Z. Popper, T. Bootten, A. Albert, R.H. Davis, C. Chennareddy, R. Dong, B. O'Shea, R. Rossi, C. Leoff, G. Freshour, R. Narra, M. O'Neill, W.S. York and M.G. Hahn, *Plant Physiol.*, 2010, **153**: 514-525.
2. S. Pattathil, U. Avci, J.S. Miller and M.G. Hahn (2012). Immunological Approaches to Plant Cell Wall and Biomass Characterization: Glycome Profiling. In *Biomass Conversion: Methods and Protocols* (Springer), Volume 908, Part 1, 61-72.