

Appendix S1- List of Cell Wall Monoclonal Antibodies Used in Glycome Profiling

Appendix S1: Detailed list of plant cell wall glycan-directed monoclonal antibodies (McAbs) used in this study for ELISA analyses (Figure 6a). The groupings of antibodies are based on a hierarchical clustering analysis of all mAbs screened against a panel of plant polysaccharide preparations (Pattathil et al., 2010) that groups the mAbs according to the polysaccharides that they predominantly 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 McAb, including epitope structure recognized (where known), supplier information, and any related literature reference

Glycan Group Recognized	mAb Name
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Non-Fucosylated Xyloglucan	CCRC-M54
	CCRC-M48
	CCRC-M49
	CCRC-M96
	CCRC-M50
	CCRC-M51
	CCRC-M53
	CCRC-M100
	CCRC-M103
	CCRC-M58
	CCRC-M86
	CCRC-M55
	CCRC-M52
	CCRC-M99
	CCRC-M95
	CCRC-M101
	CCRC-M104
	CCRC-M89
	CCRC-M93
	CCRC-M87
	CCRC-M88
	CCRC-M57
	CCRC-M90
Fucosylated Xyloglucan	CCRC-M102
	CCRC-M39
	CCRC-M106
	CCRC-M84
	CCRC-M1

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Xylan 1/XG	CCRC-M111
	CCRC-M108
	CCRC-M109

Xylan 2	CCRC-M119
	CCRC-M115
	CCRC-M110
	CCRC-M105
	CCRC-M117
	CCRC-M113
	CCRC-M120
	CCRC-M118
	CCRC-M116
	CCRC-M114
	CCRC-M154
	CCRC-M150

Xylan 3	CCRC-M160
	CCRC-M137
	CCRC-M152
	CCRC-M149
	CCRC-M144
	CCRC-M146
	CCRC-M145
	CCRC-M155

Xylan 4	CCRC-M153
	CCRC-M151
	CCRC-M148
	CCRC-M140
	CCRC-M139
	CCRC-M138

Galactomannan	CCRC-M75
	CCRC-M70
	CCRC-M74

Homogalacturonan Backbone	CCRC-M131
	CCRC-M38
	JIM5
	JIM136

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	<u>JIM7</u> <u>CCRC-M34</u>
Rhamnogalacturonan I Backbone	<u>CCRC-M69</u> <u>CCRC-M35</u> <u>CCRC-M36</u> <u>CCRC-M14</u> <u>CCRC-M129</u> <u>CCRC-M72</u>
Linseed Mucilage Rhamnogalacturonan I	<u>CCRC-M40</u>
Physcomitrella Pectin	<u>CCRC-M98</u> <u>CCRC-M94</u>
Rhamnogalacturonan IA	<u>CCRC-M5</u> <u>CCRC-M2</u>
Rhamnogalacturonan IB	<u>CCRC-M23</u> <u>CCRC-M17</u> <u>CCRC-M19</u> <u>CCRC-M18</u> <u>CCRC-M56</u> <u>CCRC-M16</u>
Rhamnogalacturonan IC	<u>JIM137</u> <u>JIM101</u> <u>CCRC-M61</u> <u>CCRC-M30</u>
Rhamnogalacturonan I Arabinogalactan	<u>CCRC-M60</u> <u>CCRC-M41</u> <u>CCRC-M80</u> <u>CCRC-M79</u> <u>CCRC-M44</u> <u>CCRC-M33</u> <u>CCRC-M32</u> <u>CCRC-M13</u> <u>CCRC-M42</u> <u>CCRC-M24</u> <u>CCRC-M12</u>

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	<u>CCRC-M7</u>
	<u>CCRC-M77</u>
	<u>CCRC-M25</u>
	<u>CCRC-M9</u>
	<u>CCRC-M128</u>
	<u>CCRC-M126</u>
	<u>CCRC-M134</u>
	<u>CCRC-M125</u>
	<u>CCRC-M123</u>
	<u>CCRC-M122</u>
	<u>CCRC-M121</u>
	<u>CCRC-M112</u>
	<u>CCRC-M21</u>
	<u>JIM131</u>
	<u>CCRC-M22</u>
	<u>JIM132</u>
	<u>JIM1</u>
	<u>CCRC-M15</u>
	<u>CCRC-M8</u>
	<u>MH4.3E5</u>
	<u>JIM16</u>

Arabinogalactan 1	<u>JIM93</u>
	<u>JIM94</u>
	<u>JIM11</u>
	<u>MAC204</u>
	<u>JIM20</u>

Arabinogalactan 2	<u>JIM14</u>
	<u>MAC207</u>
	<u>JIM19</u>
	<u>JIM12</u>
	<u>CCRC-M133</u>
	<u>CCRC-M107</u>

Arabinogalactan 3	<u>JIM4</u>
	<u>CCRC-M31</u>
	<u>JIM17</u>
	<u>CCRC-M26</u>
	<u>JIM15</u>
	<u>JIM8</u>
	<u>CCRC-M85</u>

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	CCRC-M81
	MAC266
	PN 16.4B4
Arabinogalactan 4	JIM133
	JIM13
	CCRC-M92
	CCRC-M91
	CCRC-M78
Unidentified	MAC265
	CCRC-M97

References

Pattathil, S., Avci, U., Baldwin, D., Swennes, A.G., McGill, J.A., Popper, Z., Bootten, T., Albert, A., Davis, R.H., Chennareddy, C., Dong, R.H., O'Shea, B., Rossi, R., Leoff, C., Freshour, G., Narra, R., O'Neil, M., York, W.S., and Hahn, M.G. (2010) A comprehensive toolkit of plant cell wall glycan-directed monoclonal antibodies. *Plant Physiology* 153: 514-525.