Table S1. Characteristics of used antibodies.

Antibody	Antigen	Weak labeling	Strong labeling	Ref
PAM1	De-esterified GalA residues	30<OGAs with DPs <34	unesterified GalA, DP >34, low DE	[23, 24]
JIM5	MeGalA-(1,4)-α-GalA-(1,4)-α-GalA-(1,4)-α-GalA-(1,4)-α-GalA-(1,4)-MeGalA	DE>90, DE<20%	methylesterified and non-methylesterified GalA	http://www.carbosource.net, [24]
JIM7	GalA-(1,4)-MeGalA-(1,4)-MeGalA-(1,4)-MeGalA-(1,4)-MeGalA-(1,4)-GalAMeGalA-(1,4)-GalA-(1,4)-MeGalA-(1,4)-GalA-(1,4)-MeGalA-(1,4)-GalA	Low methylesterified GalA	Heavily methylesterified GalA,	http://www.carbosource.net, [24]
INRA-RU2	Rha-(1,4)-GalA-(1,2)-Rha-(1,4)-GalA-(1,2)	DP=4, $Rha_2GalA_2Gal_2$	DP=14-18, substitutions with Gal, Ara, HG do not affect	[25]
LM5	β-Gal-(1,4)-β-Gal-(1,4)-β-Gal-(1,4)-β-Gal	fluorinated and methylated β-(1,4)-Gal_4	β-(1,4)-Gal, DP 3-5	[27,28,108]
LM26	6‴-O-β-(1,6)- Gal-β-(1,4)-Gal_6	6‴-O-β-(1,6)-Gal-β-(1,6)-Gal-β-(1,4)-Gal_6, 6'-O-β-(1,6)-Gal-β-(1,4)-Gal_3	6‴-O-β-Gal-β-(1,4)-Gal_6	[28]
LM6	α-Ara-(1,5)-α-Ara-(1,5)-α-Ara-(1,5)-α-Ara-(1,5)-α-Ara	branched arabinan	α-(1,5)- L-Ara*f*$_2$, linear arabinan	[29,30]
INRA-AGI-1	[(1,4)-β-D-Gal*p*]$_x$-[(1,5)-α-L-Ara*f*]$_y$-[(1,4)-β-D-Gal*p*]$_z$; x, y, and z=1-3 (type I arabinogalactan motif)	epitope is masked by long galactan side chains	(1,4)-Gal, (1,5)-Ara	[31]
LM25	XLLG, XXLG and XXXG oligosaccharides of xyloglucan (X=xylose bound to G; G =glucose, L=galactose bound to xyloseX)	XLLG	XXXG and XXLG	[32]
LM21	β-(1,4)-Man, DP 2-5. Man_5, Gal_2Man_5	galactomannan-derived oligosaccharides	Man_4,Man_5	[33]
LM11	β-Xyl-(1,4)-β-Xyl-(1,4)-β-Xyl-(1,4)-β-Xyl	DP=3; glucuronoarabinoxylan (38% of Ara, 8% of GlcA)	β-1,4-xylan (DP>3), 4-O-methylglucuronoxylan (18% of MeGlcA), arabinoxylan (6% or 37% of Ara)	[34]
CBM3a	crystalline cellulose	xyloglucan	crystalline cellulose	[35,109]

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