Agrisera
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Product no AS18 4197-1ml

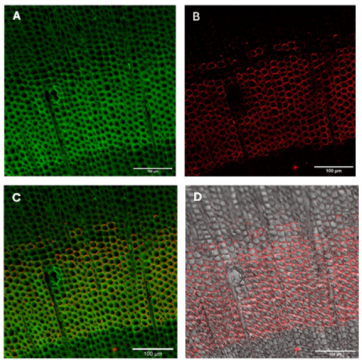
Anti-Pectic polysaccharide, beta-1,4-galactan (monoclonal, clone LM5)

Product information

Immunogen	Pectic polysaccharide (beta 1,4-galactan)
Host	Rat
Clonality	Monoclonal
Subclass/isotype	IgG
Purity	Cell culture supernatant.
Format	Liquid
Quantity	1 ml
Storage	Store at +4°C (short term) and at -20°C (long term). Make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from any material adhering to the cap or sides of the tube.
Additional information	Contains 0.05% Sodium Azide. No cross-reactivity with (1-3)-beta-D-galactans or (1-6)-beta-D-galactans. It recognizes a linear tetrasaccharide in (1-4)-beta-D-galactans. In ELISA (competitive inhibition), antibody is binding to: (1-4)-beta-D-galactan was inhibited (50%) by 58 µg/ml (1-4)-beta-D-galactotetraose and by 0.7 µg/ml lupin (1-4)-beta-D-galactan.

Application information

Recommended dilution	1:10 (ELISA, IF)
Confirmed reactivity	Higher plants, ferns and mosses
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Selected references	Andersen et al. (2016). Characterization of the LM5 pectic galactan epitope with synthetic analogues of ß-1,4-d-galactotetraose. Carbohydr Res. 2016 Dec ;436:36-40.doi: 10.1016/j.carres.2016.10.012. Jones et al. (1997). Development and validation of an in vitro model system to study peripheral sensory neuron development and injury. Sci Rep. 2018 Oct 29;8(1):15961. doi: 10.1038/s41598-018-34280-3.



Samples:
A - Lignin autofluorescence
B - LM5 staining of wood
C - Composite
D - LM5 antibody staning + brightfield
Objective: 20x,100 µm scalebar

Type of material: Pine (*Pinus sylvestris*) reaction wood section in paraffin cut with microtome
Fixation: none
Hydrophilization: no
Cell wall digestion: no
Membrane permeabilization: none Antigen retrieval: no
Blocking buffer: 5% milk in PBS
Washing buffer: 5% milk in PBS-T

Primary antibody dilution and incubation time: 1:20 incubation 90 minutes, room temperature
Secondary antibody dilution and incubation time and supplier: 1:100 Goat anti-Rat IgG (H+L) Cross-Adsorbed Secondary Antibody, Alexa Fluor™ 594 (invitrogen: A-11007), incubation for 60 minutes in room temperature.
Co-staining of the nucleus (DAPI): no
Cell wall and nucleus staining: none

Courtesy of Dr. Jan Łyczakowski, Jagiellonian University, Kraków, Poland