

**Product no AS18 4197-1ml****Anti-Pectic polysaccharide, beta-1,4-galactan (monoclonal, clone LM5)****Product information**

<b>Immunogen</b>	Pectic polysaccharide (beta 1,4-galactan)
<b>Host</b>	Rat
<b>Clonality</b>	Monoclonal
<b>Subclass/isotype</b>	IgG
<b>Purity</b>	Cell culture supernatant.
<b>Format</b>	Liquid
<b>Quantity</b>	1 ml
<b>Storage</b>	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.

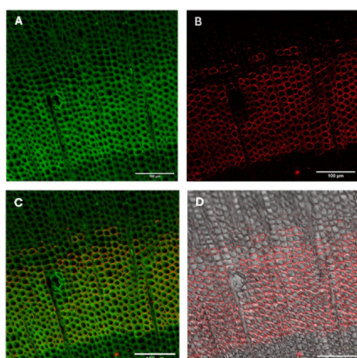
**Application information**

**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 β-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 staining + 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

This product is **for research use only** (not for diagnostic or therapeutic use)

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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