

Datasheet 2021/06/22

Product Name: Anti-Arabinogalactan-Protein (AGP) [LM14] Antibody

Catalog Number: ELD026

Size: 5mL (supernatant)

Specifications:

Product Type: Antibody

Antigen: Arabinogalactan-protein (AGP)

Isotype: IgM (except JIM8, IgG2c)

Clonality: Monoclonal

Clone Name: Jim4, 8, 13, 15, 16 and LM2, 14, 30

Reactivity: Land Plants

Immunogen: Polysaccharide

Species Immunized: Rat

Epitope: **LM2** and **LM14:** Bind to Glucuronosyl residue of AGP, **LM30:** Binds to Arabinosyl residues of AGP, **JIM16:** Binds to Galactosyl residue of AGP, **Others:** unknown

Buffer: Cell Culture Supernatant, 0.05% Sodium Azide

Tested Applications: IF 1:10, ELISA 1:10 (LM2 only)

Storage: -20C

Shipped: Room Temperature

Provider: From the laboratory of [Paul Knox, PhD](#), University of Leeds.

References:

1. Smallwood M, Yates EA, Willats WGT, Martin H, Knox JP (1996) Immunochemical comparison of membrane-associated and secreted arabinogalactan-proteins in rice and carrot. *Planta* 198, 452-459
2. Wilkinson et al. (2017) *J. Cereal Science* 74, 155-164.
3. Stacey NJ, Roberts K, Knox JP. Patterns of expression of the JIM4 arabinogalactan-protein epitope in cell cultures and during somatic embryo genesis in *Daucus carota* L. *Planta*. 1990;180(2):285-292.
4. Yates EA, Valdor JF, Haslam SM, et al. Characterization of carbohydrate structural features recognized by anti-arabinogalactan-protein monoclonal antibodies. *Glycobiology*. 1996;6(2):131-139.
5. Pennell RI, Janniche L, Kjellbom P, Scofield GN, Peart JM, Roberts K. Developmental Regulation of a Plasma Membrane Arabinogalactan Protein Epitope in Oilseed Rape Flowers. *Plant Cell*. 1991;3(12):1317-1326.
6. Knox JP, Linstead PJ, Cooper JPC, Roberts K. Developmentally regulated epitopes of cell surface arabinogalactan proteins and their relation to root tissue pattern formation. *Plant J*. 1991;1(3):317-326.
7. Moller I, Marcus SE, Haeger A, et al. High-throughput screening of monoclonal antibodies against plant cell wall glycans by hierarchical clustering of their carbohydrate microarray binding profiles. *Glycoconj J*. 2008;25(1):37-48.

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