

MONOCLONAL ANTIBODY TO (1→4)-β-MANNAN AND GALACTO-(1→4)-β-MANNAN (MOUSE IgG₁, LAMBDA LIGHT)

FOR RESEARCH PURPOSES ONLY

Cat. No. 400-4

SPECIFICITY

This antibody recognizes linear (1→4)-β-manno-oligosaccharides in (1→4)-β-mannans and galactomannans. This antibody can be used with second stage, gold-labelled rabbit anti-mouse antibody for immunohistochemical studies.

TITRE

Inhibition (IC₅₀) measured in indirect ELISA against the following β-mannan-BSA conjugates:-

<i>Polysaccharide</i>	<i>Man/Gal Ratio</i>	<i>IC₅₀ (ug/mL)</i>
Carob galactomannan	4	0.01
Guar galactomannan	3.2	0.023
Lily glucomannan	3	0.2
	(Man/Glc)	
Fenugreek galactomannan	1.1	5

Antibody binding to the β-mannan-BSA conjugate was inhibited (50 %) by Man₃, 0.85 mg/mL; Man₄, 0.08, Man₅, 0.018, Man₆, 0.013;

USE

Reconstitute in 150μL of 120mM NaCl. When reconstituted, the antibody concentration is 1mg/mL in 10mM phosphate buffer (pH 7.2), 0.8 % sodium chloride.

STORAGE

This freeze-dried product has been shipped at ambient temperature, however it should be stored for extended periods at less than 4°C, with desiccant.

Once reconstituted, store at 4°C short term, or at -20°C in aliquots for long term. Do not freeze again after thawing. Once thawed, store at 4°C.

REFERENCE

Pettolino F., Hoogenraad N.J., Ferguson C., Bacic A., Johnson E. and Stone B. *Planta* (2001). A (1-4)-β-mannan-specific monoclonal antibody and its use in the immunocytochemical location of galactomannans. *Planta* 214: 235-242.

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