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# MONOCLONAL ANTIBODY TO (1→3)- $\beta$ -GLUCAN (MOUSE IgG, KAPPA LIGHT)

FOR RESEARCH PURPOSES ONLY

Cat. No. 400-2

## SPECIFICITY

This antibody recognizes linear (1→3)- $\beta$ -oligosaccharide segments in (1→3)- $\beta$ -glucans. It has no cross reactivity with (1→4)- $\beta$ -glucan or (1→3,1→4)- $\beta$ -glucan.

This antibody can be used with second stage, gold-labelled rabbit anti-mouse antibody for immunohistochemical studies

## TITRE

Indirect ELISA titre against the following  $\beta$ -glucan-BSA conjugates were:

BSA-laminarin	30ng/mL
BSA-cellopentaose	>100,000ng/mL
BSA-barley $\beta$ -glucan	>100,000ng/mL

Antibody binding to the laminarin-BSA conjugate was inhibited (50%) by laminaribiose ( $1.5 \times 10^{-3}M$ ) and laminaritetrose ( $4.2 \times 10^{-4}M$ ).

## USE

Reconstitute in 150 $\mu$ L 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 with desiccant for long term. Do not freeze again after thawing. Once thawed, store at 4°C.

## REFERENCES

Meikle, P.J. Bonig, I. Hoogenraad, N.J. Clarke, A.E. & Stone, B.A. (1991). *Planta* 185: 1-8.

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