
MONOCLONAL ANTIBODY TO (1→3,1→4)-β-GLUCAN (MOUSE IgG, KAPPA LIGHT)

FOR RESEARCH PURPOSES ONLY

Cat. No. 400-3

SPECIFICITY

This antibody recognizes linear (1→3,1→4)-β-oligosaccharide segments in (1→3,1→4)-β-glucans. It has no cross-reactivity with (1→3)-β-glucans.

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

TITRE

Indirect ELISA titre against the following β-glucan-BSA conjugates were:

BSA-(1→3,1→4)-β-glucans	10ng/mL
BSA-cellopentaose	200ng/mL
BSA-laminarin	>100,000ng/mL

Antibody binding to the BSA-(1→3,1→4)-β-glucan conjugate was inhibited (50%) by $G_3G_4G_4G_3G_4G_4G_R$ ($4.3 \times 10^{-6}M$), $G_3G_4G_R$ ($10^{-2}M$), $G_4G_4G_R$ ($10^{-2}M$) and $G_3G_3G_R$ (no inhibition).

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 with desiccant for long term. Do not freeze again after thawing. Once thawed, store at 4°C.

REFERENCES

Meikle, P.J. Hoogenraad, N.J. Bonig, I. Clarke, A.E. & Stone, B.A. (1994). *The Plant Journal* 51: 1-9.

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