

Galanthus Nivalis Lectin (GNL), Biotinylated

Cat PL00710

Size 2 mg

Sugar Specificity

Mannose

Description

Unlike most mannose-specific lectins, Galanthus nivalis is not a metal protein and does not require Ca^{2+} or N^{++} binding. Binding appears to be directed preferentially towards structures containing (alpha-1,3) mannose residues. Unlike most mannose-binding lectins, GNL does not bind alpha-linked glucose. Reports suggest that this lectin binds IgM in rats and mice, but not IgG. The only protein reported to bind to this lectin in human serum is $\alpha 2$ -macroglobulin. GNL binds to many viral glycoproteins. The biotinylated cabbage flower lectin binds the appropriate amount of biotin to provide the best staining properties for this lectin. This conjugate contains essentially no unconjugated biotin and is preserved with sodium azide.

Conjugate

Biotinylated

Concentration

2 mg/ml

Sugar Specificity

Mannose

Storage

2-8°C; Store frozen for long term storage

Application

Immunohistochemistry / Immunocytochemistry, Immunofluorescence, Blotting Applications, Elispot, ELISAs, Glycobiology

Recommended dilution

For most applications, we recommend a freshly prepared working solution of 5-20 μ g/ml in the below buffer. A precipitate may form during storage. This does not have a significant adverse effect on the product. If a precipitate forms upon long-term storage, warm to 37 °C and centrifuge before use.

Solution

10 mM HEPES, pH 7.5, 0.15 M NaCl, 0.08% sodium azide, 0.1 mM $CaCl_2$.

FOR RESEARCH OR FURTHER MANUFACTURING USE ONLY