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WHEAT GERM AGGLUTININ (WGA), BIOTINYLATED

SKU: B-1025-5



DESCRIPTION

The receptor sugar for WGA is *N*-acetylglucosamine, with preferential binding to dimers and trimers of this sugar. WGA can bind oligosaccharides containing terminal *N*-acetylglucosamine or chitobiose, structures which are common to many serum and membrane glycoproteins. Bacterial cell wall peptidoglycans, chitin, cartilage glycosaminoglycans, and glycolipids can also bind WGA.

Biotinylated WGA has an appropriate number of biotins bound to provide the optimum staining characteristics for this lectin. This conjugate is supplied essentially free of unconjugated biotins and is preserved with sodium azide.

SPECIFICATIONS

Molecular Weight	36
Extinction Coefficient	1.46

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Formulation	10 mM HEPES, 0.15 M NaCl, pH 7.5, 0.08% sodium azide, 0.1 mM CaCl2, 10 mM N-acetylglucosamine.
Inhibiting or Eluting Sugar	GlcNAc or Chitin Hydrolysate
Unit Size	5 mg
Storage Instructions	2-8 °C; Store frozen for long term storage
Sugar Specificity	Terminal GlcNAc-β, terminal GlcNAc-a and terminal N-acetyl-containing glycans
Usage Summary	For most applications we recommend a freshly prepared working solution of 5-20 µg/ml in the below buffer.
Applications	Immunohistochemistry / Immunocytochemistry, Immunofluorescence, Blotting Applications, Elispot, ELISAs, Glycobiology
Concentration	5 mg active conjugate/ml
Conjugate	Biotinylated

TECHNICAL INFORMATION

Wheat germ agglutinin (WGA) contains a group of closely related isolectins, with an isoelectric point about pH 9. This lectin is used for the purification of insulin receptors and for neuronal tracing. Native WGA has also been reported to interact with some glycoproteins via sialic acid residues (see succinylated WGA).

This biotinylated lectin is an ideal intermediate for examining glycoconjugates using the Biotin-Avidin/Streptavidin System. First the biotinylated lectin is added, followed by the VECTASTAIN ABC Reagent, Avidin D conjugate, or streptavidin derivative.

Inhibiting/Eluting Sugar: Chitin Hydrolysate or 500 mM *N*-acetylglucosamine with salt and/or acid elution generally required

CITATIONS

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DOCUMENTS

- Safety Data Sheet
- Lectins in Histochemistry, ELISA, and Western Blot Applications
- Download CoA
- Datasheet

GALLERY IMAGES



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