

Active Native Wheat Germ Agglutinin Protein

Cat. No. Lectin-1863W **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This product is the Agarose bound Wheat germ Agglutinin and has sugar specificity against N-Acetylglucosamine.
Species	Wheat germ
Source	Wheat Germ
Description	Wheat germ agglutinin (WGA) contains a group of closely related isolectins, with an isoelectric point about pH 9. 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. Native WGA has also been reported to interact with some glycoproteins via sialic acid residues (see succinylated WGA). This lectin is used for the purification of insulin receptors and for neuronal tracing.
Bio-activity	Inhibiting/Eluting Sugar: Chitin Hydrolysate or 500 mM N-acetylglucosamine with salt and/or acid elution generally required.
Molecular Mass	36 kDa
Applications	Immunohistochemistry / Immunocytochemistry, Immunofluorescence, Blotting Applications, Glycobiology, Mitogenic Stimulation

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Concentration

Although many buffers can be employed for reconstituting and diluting this lectin, 10 mM HEPES buffered saline, pH 8.5, 0.1 mM Ca²⁺ is recommended. For preserving solutions stored at 4 centigrade, 0.08% sodium azide can be used.

GENE INFORMATION

Synonyms

Lectin; WGA

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