

Active Native Wheat *Triticum vulgaris* Lectin (WGA), Biotinylated-Conjugated

Cat. No. WGA-089W **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Wheat <i>Triticum vulgaris</i> Lectin (WGA) - Biotinylated Blood Group Specificity: Non-specific Preferred Sugar Specificity: N-Acetylglucosamine Inhibiting or Eluting Sugar: Chitin Hydrolysate or N-Acetylglucosamine w/acid or salt Divalent Ions: Ca⁺⁺ Mitogenic Activity: Yes Hazardous Shipping: Non-hazardous Carbohydrate Specificity: N-Acetylglucosamine
Species	Wheat
Source	Wheat
Description	Wheat germ agglutinin (WGA) is a lectin that is affinity purified from <i>Triticum vulgaris</i> and non-enzymatically binds to N-acetyl-D-glucosamine and sialic acid residues of glycoproteins and glycolipids. This lectin protects <i>Triticum vulgaris</i> from insects, yeast and bacteria. WGA consists of two subunits and has a molecular weight of 36 kDa. It is an acidic protein and has mitogenic activity toward lymphocytes. It agglutinates erythrocytes and most types of malignant cells. Biotin is a small molecule involved in a wide range of metabolic processes. This ligand forms a complex with Avidin and Streptavidin, resulting in the strongest non-covalent protein-ligand interaction known. Biotinylated WGA has an appropriate amount of biotin bound to provide optimum detection characteristics when using an Avidin-HRP or Streptavidin-HRP conjugate.

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	Biotinylated WGA allows for more sensitive detection in ELISA and Western-blotting applications.
Form	Liquid
Bio-activity	Less than 4 µg/ml will agglutinate human type O erythrocytes. Less than 1 mg/ml will agglutinate neuraminidase-treated erythrocytes.
Purity	High Purity Grade
Stability	Shelf Life: 1 year
Storage	Store frozen at -20 centigrade in amber vials or covered with foil in appropriate aliquot sizes. Avoid freeze thaw cycles. Can be stored at 2-8 centigrade for short term use.
Concentration	2 mg/mL
GENE INFORMATION	
Official Symbol	WGA
Synonyms	Triticum vulgaris Lectin; WGA

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