

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

Cat. No. WGA-334W **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Wheat <i>Triticum vulgaris</i> Lectin (WGA) - FITC (Fluorescein)
	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 ⁺⁺
	Excitation: 495 nm
	Emission: 515 nm
	Mitogenic Activity: Yes
	Hazardous Shipping: Non-hazardous
	Fluorescence: Green
	Carbohydrate Specificity: N-Acetylglucosamine

Species	Wheat
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Source	Wheat
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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. Affinity purified WGA is labeled with fluorescein isothiocyanate (FITC) and has an appropriate number of fluorochromes
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bound to provide the optimum staining characteristics for this lectin. FITC conjugates have been used in a variety of immunohistochemical and flow cytometry applications.

Form	Liquid
Bio-activity	10 µg/ml will agglutinate human erythrocytes nonspecifically.
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. Clarify by centrifugation, if needed.
Concentration	2 mg/mL

GENE INFORMATION

Official Symbol	WGA
Synonyms	Triticum vulgaris Lectin; WGA

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