

Active Native Wheat *Triticum vulgaris* Lectin (WGA), Cy5-Conjugated

Cat. No. WGA-240W **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Wheat <i>Triticum vulgaris</i> Lectin (WGA) - Cy5
	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: 650 nm
	Emission: 670 nm
	Mitogenic Activity: Yes
	Hazardous Shipping: Non-hazardous
	Fluorescence: Red
	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. When bound to Cy5, the binding pattern of WGA in cellular imaging and flow cytometry is evident. The excitation
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wavelength required for Cy5 to fluoresce is high enough to avoid overlap with most other fluorochromes, making it useful for dual-labeling experiments. Because of this high excitation, there is typically less background from autofluorescence of biological specimens.

Form	Liquid
Bio-activity	10 µg/ml will agglutinate human erythrocytes nonspecifically.
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	1 mg/mL

GENE INFORMATION

Official Symbol	WGA
Synonyms	Triticum vulgaris Lectin; WGA

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