# Active Native Wheat Triticum vulgaris Lectin (WGA), Texas Red-Conjugated

**Cat. No.** WGA-567W **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Native Wheat Triticum vulgaris Lectin (WGA) - Texas Red<br>Blood Group Specificity: Non-specific<br>Preferred Sugar Specificity: N-Acetylglucosamine<br>Inhibiting or Eluting Sugar: Chitin Hydrolysate or N-Acetylglucosamine w/acid or salt<br>Divalent Ions: Ca++<br>Excitation: 595 nm<br>Emission: 615 nm<br>Mitogenic Activity: Yes<br>Hazardous Shipping: Non-hazardous<br>Fluorescence: Red<br>Carbohydrate Specificity: N-Acetylglucosamine |
| **Species** | Wheat |
| **Source** | Wheat |
| **Description** | Wheat germ agglutinin (WGA) is a lectin that is affinity purified from Triticum vulgaris and non-enzymatically binds to N-acetyl-D-glucosamine and sialic acid residues of glycoproteins and glycolipids. This lectin protects Triticum vulgaris 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. Texas Red is a red-fluorescent dye and when bound to Triticum vulgaris Lectin (WGA) can show the binding pattern of |

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| | this lectin in cellular imaging applications. There is very little overlap between the emission spectra of Texas Red and FITC making this combination ideal for dual-labeling experiments. Rhodamine dyes, such as Texas Red, are more photostable and less sensitive to pH change when compared to other dyes such as fluorescein. |
| **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. |
| **Concentration** | 5 mg/mL |

## GENE INFORMATION

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| **Official Symbol** | WGA |
| **Synonyms** | Triticum vulgaris Lectin; WGA |

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