

# Active Native Wheat *Triticum vulgaris* Lectin (WGA), Colloidal Gold-Conjugated

**Cat. No.** WGA-136W    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Product Overview</b> | <p>Native Wheat <i>Triticum vulgaris</i> Lectin (WGA) - Colloidal Gold</p> <p>Blood Group Specificity: Non-specific</p> <p>Preferred Sugar Specificity: N-Acetylglucosamine</p> <p>Inhibiting or Eluting Sugar: Chitin Hydrolysate or N-Acetylglucosamine w/acid or salt</p> <p>Divalent Ions: Ca<sup>++</sup></p> <p>Excitation: 550 nm</p> <p>Emission: 570 nm</p> <p>Mitogenic Activity: Yes</p> <p>Hazardous Shipping: Non-hazardous</p> <p>Carbohydrate Specificity: N-Acetylglucosamine</p>                                                                                                                                                                                                                        |
| <b>Species</b>          | Wheat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | Wheat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>      | <p>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. Colloidal gold can be used to visualize localization of specific saccharide moieties and examine the distribution of plasma membrane glycoproteins based on the binding pattern of WGA. Colloidal gold</p> |

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labeled lectins can be viewed via electron microscopy.

|                      |                                                                                                                                                                                |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Form</b>          | Liquid                                                                                                                                                                         |
| <b>Bio-activity</b>  | 10 µg/ml will agglutinate human erythrocytes nonspecifically.                                                                                                                  |
| <b>Purity</b>        | High Purity Grade                                                                                                                                                              |
| <b>Stability</b>     | Shelf Life: 1 year                                                                                                                                                             |
| <b>Storage</b>       | 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. |
| <b>Concentration</b> | 1 mg/mL                                                                                                                                                                        |

## GENE INFORMATION

|                        |                               |
|------------------------|-------------------------------|
| <b>Official Symbol</b> | WGA                           |
| <b>Synonyms</b>        | Triticum vulgaris Lectin; WGA |

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