

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

Cat. No. WGA-384W **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Wheat <i>Triticum vulgaris</i> Lectin (WGA) - HRP (Horseradish Peroxidase) 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. Horseradish peroxidase (HRP) is a 40 kDa protein that catalyzes the oxidation of substrates by hydrogen peroxide, resulting in a colored or fluorescent product or release of light as a byproduct of the reaction. It is most commonly used for blotting, immunoassays and immunohistochemistry methods. <i>Triticum vulgaris</i> Lectin (WGA) is conjugated to HRP at an appropriate ratio

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to provide optimal staining characteristics.

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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