Native Wheat Germ Lectin, FITC conjugated

Cat. No. Lectin-1726W **Lot. No.** (See product label)

SPECIFICATION

Product Overview	This product is the triticum vulgaris lectin which againsts N-acetyl glucosamine (FITC). Affinity purified WGA is conjugated with Fluorescein-5- isothiocyanate (FITC-isomer 1) and purified on Gel filtration column. A max. = 490 nm, E max =520 nm, Ratio of A490/A280= 1.0-1.4.
Species	Wheat Germ
Source	Wheat Germ
Description	Wheat germ agglutinin (WGA) (MW 36 kDa) is a dimeric, carbohydrate-free protein composed of two identical subunits. The amino acid sequence provides a figure of 21,600, based on 171 amino acids per polypeptide chain. The protein dissociates into monomers in acidic media, pK of the reaction 4. The receptor sugar for WGA is N-acetyl glucosamine (GlcNAc), GlcNacβ14GlcNAc. These structures are present in many serum and membrane glycoproteins, bacterial cell wall peptidoglycans, chitin, cartilage glycosaminogyycons and glycolipids. Native WGA also react with glycoproteins with sialic acid residue. This lectin is useful for the purification of insulin receptors, serum proteins and neuronal tracing. Inhibiting/Eluting sugars: 500 mM GlcNAc, dimer, trimmer or 100 mM acetic acid. Carbohydrate-Binding Specificity of WGA: Pentaacetylchitopentaose >Tetraacetylchitotetraose > triacetylchitotriose > Diacetylchitobiose > GlcNAc.
Form	10 mM phosphate, 150 mM NaCl, pH 7.6, 0.1 mM Calcium chloride and 0.05% sodium azide

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Applications	ICC/IF. Immunofluorescence 1:250-1:1000. The optimum dilution should be determined by the individual lab.
Storage	Store at 2-8centigrade.
Concentration	5 mg/ml (Please refer to the vial label for the specific concentration)

GENE INFORMATION

Synonyms	Wheat Germ agglutinin; Triticum vulgaris; Wheat germ agglutinin lectin, Wheat germ agglutinin, Triticum vulgaris, GlcNAc lectin, WGA, WGA Lectin, Triticum vulgaris lectin

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