

Lectins and Glycobiology

A majority of membrane and secreted proteins are decorated by a variety of sugar residues, and thus called glycoproteins. Glycosylation plays specific roles, including receptors for microorganisms, toxins, and cell-cell interactions. In cancer tissues, glycosylation is profoundly altered, making cancer-specific antigens (biomarkers).

Determination of these glycosylation patterns is difficult using standard Mass-Spec analysis. GlycoMatrix™ is a new line of products from bioWORLD that utilizes more than 40 affinity-purified lectins functionalized for direct application in clinical microbiology, immunohistochemistry, ELISA, glycoprotein purification, and cancer biomarkers analysis.

Cancer Biomarkers

Breast cancer	<i>Helix pomatia</i> (HPA) Lectin
Colon cancer	<i>Arachis hypogaea</i> (PNA) <i>Vicia faba</i> (VFA)
Colorectal cancer	<i>Sambucus nigra</i> (SNA I)
Pancreatic & Gastric cancer	<i>Arachis hypogaea</i> (PNA) <i>Bauhinia purpurea</i> (BPA) <i>Vicia villosa</i> (VVA)
Hepatocellular cancer	<i>Aleuria aurantia</i> (AAL) <i>Lens culinaris</i> (LCA) <i>Trichosanthes japonica</i> (TJA I)
Genitourinary tract tumor	<i>Ulex europaeus</i> (UEA I) <i>Arachis hypogaea</i> (PNA) <i>Helix pomatia</i> (HPA)
Bladder carcinoma	<i>Viscum album L.</i> (VAA)
Prostate cancer	<i>Glycine max</i> (SBA) <i>Helix pomatia</i> (HPA)
Endometrial carcinoma	<i>Ulex europaeus</i> (UEA I) <i>Arachis hypogaea</i> (PNA)
Lung cancer	<i>Viscum album L.</i> (VAA) <i>Helix pomatia</i> (HPA) <i>Ulex europaeus</i> (UEA I) <i>Phaseolus vulgaris</i> (PHA)

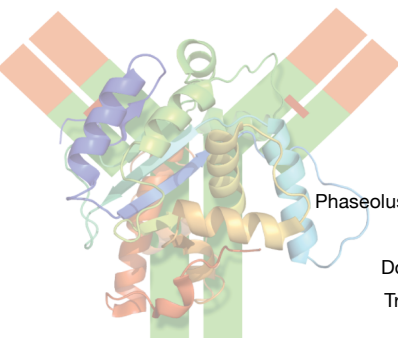
Available As:

- Affinity-Purified Pure Lectins
- AP-Conjugated Lectins
- HRP-Conjugated Lectins
- FITC-Tagged Lectins
- TRITC-Tagged Lectins
- Colloidal Gold Conjugated Lectins
- Lectin Antibodies
- Lectin Separopore® for glycoprotein chromatography
- Lectin-BlackPearl® Magnetic Separopore® Beads



Lectin Kits

- Triticum vulgare (Wheat) lectin (WGA) - MagneZoom™ Kit (20163019)
- Canavalia ensiformis lectin (Con A) - MagneZoom™ Kit (20163020)
- Glycoprotein Isolation Kit - UEA I (Fucose) Separopore® (21761068)
- Glycoprotein Isolation Kit - Insulin Receptor (30330098)
- Glycoprotein Isolation Kit - gp120 (HIV Envelope Protein) (30330099)
- Glycoprotein Isolation Kit - ConA (Glucose) Separopore® (20120005)
- Glycoprotein Isolation Kit - PNA (Galactose) Separopore® (44081001)
- Glycoprotein Isolation Kit - SNA (Neu5NAc) Separopore® (44081002)
- Glycoprotein Isolation Kit - WGA (GluNAc) Separopore® (44081003)
- Glycoprotein Isolation Kit - PSA (Mannose) Separopore® (44081004)



- Arachis hypogaea (Peanut) lectin (PNA) - antibody (21510600)
- Artocarpus integrifolia lectin (Jacalin) - antibody (30330083)
- Griffonia simplicifolia lectin (GSL) - antibody (21510608)
- Canavalia ensiformis lectin (Con A) - antibody (21510602)
- Lens culinaris (Lentil) lectin (LCA, LCH) - antibody (21510612)
- Phaseolus vulgaris (Kidney bean) lectin (PHA-E+L) - antibody (21510614)
- Ulex europaeus (Gorse) lectin (UEA I) - antibody (21510622)
- Dolichos biflorus (Horse gram) lectin (DBA) - antibody (21761069)
- Triticum vulgare (wheatgerm) lectin (WGA) - antibody (21761070)

Lectin Antibodies

GlycoPure™ Reagents

- GlycoPure™ Binding Buffer - ConA (21510892)
- GlycoPure™ Binding Buffer - PNA (21510893)
- GlycoPure™ Binding Buffer - WGA (21510896)
- GlycoPure™ Binding Buffer - PSA (21510899)
- GlycoPure™ Binding Buffer - NPL (21510901)
- GlycoPure™ Binding Buffer - EEL (21510903)
- GlycoPure™ Binding Buffer - Jacalin (21510906)
- GlycoPure™ Binding Buffer - MPL (21510908)
- GlycoPure™ Binding Buffer - WFL (21510911)
- GlycoPure™ Binding Buffer - PHA (21510915)
- GlycoPure™ Binding Buffer - LTL (21510918)

For more GlycoPure™ Reagents, visit:
www.bio-world.com



**Also available @ ThermoFisher,
Spectrum Chemical,
Thomas Scientific, and
25 international distributors!**