

## Wheat Germ Agglutinin (WGA) Conjugates



A wheat germ agglutinin (WGA) lectin labeled with Biotium's CF® Dyes, biotin, or HRP. It is a carbohydrate-binding lectin that has high affinity for sialic acid and N-acetylglucosamine and stains yeast bud scars as well as the cell membrane of gram+ bacteria and mammalian cells.

### Product Description

Wheat germ agglutinin (WGA) is a carbohydrate-binding lectin that has high affinity for sialic acid and N-acetylglucosamine moieties of glycoproteins. As a result, WGA conjugates will label yeast bud scars and the cell membrane of gram bacteria and mammalian cells.

- Stain yeast bud scars as well as the cell membrane of gram bacteria and mammalian cells or tissues
- Suitable for Western Blot, ELISA, immunohistochemistry and other standard immunoassay applications
- A retrograde or anterograde neuronal tracer
- Withstands fixation and permeabilization
- Choice of 14 CF® Dyes from UV to near-infrared, biotin, or HRP
- Superior CF® Dyes are bright, photostable, and water-soluble

WGA is commonly used to label glycoproteins for imaging of the plasma membrane in live or fixed cells, for staining of tissue sections, or for western blotting. WGA can be used as a gram stain to fluorescently label gram bacteria but not gram- bacteria. WGA also binds to the bud scars on budding yeast such as *Saccharomyces cerevisiae*.

### Find the Right Stain for Your Application

WGA and other lectins are carbohydrate binding proteins that recognize specific sugar moieties on glycoproteins. The presence and distribution of these targets vary between cell types and tissues. As a result, other [cell surface stains](#) or other lectin conjugates, [Concanavalin A \(Con A\) Conjugates](#) and [PNA Lectin Conjugates](#), may produce better surface staining and may be more appropriate for your cell type. Lectin conjugates can be used to selectively stain the cell surface of live cells, and withstand fixation and permeabilization. When cells are fixed and permeabilized before staining, fluorescent lectins stain both cell surface and organelles in the secretory pathway. Lectins may be toxic or stimulatory to live cells depending on cell type. To find the right stain for your application, see our [Membrane & Cell Surface Stains Comparison](#). See our [Cellular Stains Table](#) for more information on how our dyes stain various organisms.

### Superior CF® Dyes

Biotium's next-generation CF® Dyes were designed to be highly water-soluble with advantages in brightness and photostability compared to Alexa Fluor®, DyLight®, and other fluorescent dyes. Learn more about [CF® Dyes](#).

**Note:** Conjugates of blue-fluorescent dyes like CF®350, CF®405S and CF®405M are not recommended for detecting low abundance targets and may be challenging to use in tissue specimens. Blue dyes have lower fluorescence and photostability, and cells and tissue have high autofluorescence in blue wavelengths, resulting in lower signal to noise compared to other colors.

### Product attributes

<b>Probe cellular localization</b>	Membrane/cell surface
<b>For live or fixed cells</b>	For fixed cells, For live/intact cells
<b>Cell permeability</b>	Membrane impermeant
<b>Fixation options</b>	Fix before staining (formaldehyde), Fix after staining (formaldehyde), Fix before staining (methanol), Fix after staining (methanol), Permeabilize after staining
<b>Colors</b>	Blue, Green, Orange, Red, Far-red, Near-infrared
<b>Storage Conditions</b>	See Product Information Sheet for details, Store at -10 to -35 °C, Protect fluorescent conjugates from light, After reconstitution store at 2-8° C for up to 1 week, or at -10 to -35° C for up to 12 months
<b>Reconstitution</b>	Dissolve 1 mg conjugate in 1 mL dH2O
<b>Antibody/conjugate formulation</b>	Lyophilized, 1 mg/mL in 1X PBS after reconstitution
<b>Application Notes</b>	Recommended staining concentration 1-5 ug/mL, See Product Information Sheet for detailed protocols
<b>Shelf life</b>	Guaranteed for at least 12 months from date of receipt when stored as recommended

## Wheat Germ Agglutinin Conjugates

Product	Conjugation	Ex/Em	Size	Catalog No.	Purchase
CF®350 WGA 5 mg	CF®350 29021	347/448 nm <a href="#">Purchase 29021</a>	1 mg	29021-1	<a href="#">Purchase 29021-1</a>
CF®405S WGA 5 mg	CF®405S 29027	404/431 nm <a href="#">Purchase 29027</a>	1 mg	29027-1	<a href="#">Purchase 29027-1</a>
CF®405M WGA 5 mg	CF®405M 29028	408/452 nm <a href="#">Purchase 29028</a>	1 mg	29028-1	<a href="#">Purchase 29028-1</a>
CF®488A WGA 5 mg	CF®488A 29022	490/515 nm <a href="#">Purchase 29022</a>	1 mg	29022-1	<a href="#">Purchase 29022-1</a>
CF®532 WGA 5 mg	CF®532 29064	527/558 nm <a href="#">Purchase 29064</a>	1 mg	29064-1	<a href="#">Purchase 29064-1</a>
CF®555 WGA 1 mg	CF®555 29076-1	555/565 nm <a href="#">Purchase 29076-1</a>	5 mg	29076	<a href="#">Purchase 29076</a>
CF®568 WGA 1 mg	CF®568 29077-1	562/583 nm <a href="#">Purchase 29077-1</a>	5 mg	29077	<a href="#">Purchase 29077</a>
CF®594 WGA 5 mg	CF®594 29023	593/614 nm <a href="#">Purchase 29023</a>	1 mg	29023-1	<a href="#">Purchase 29023-1</a>
CF®633 WGA 5 mg	CF®633 29024	630/650 nm <a href="#">Purchase 29024</a>	1 mg	29024-1	<a href="#">Purchase 29024-1</a>
CF®640R WGA 5 mg	CF®640R 29026	642/662 nm <a href="#">Purchase 29026</a>	1 mg	29026-1	<a href="#">Purchase 29026-1</a>
CF®680 WGA 5 mg	CF®680 29029	681/698 nm <a href="#">Purchase 29029</a>	1 mg	29029-1	<a href="#">Purchase 29029-1</a>
CF®680R WGA 5 mg	CF®680R 29025	680/701 nm <a href="#">Purchase 29025</a>	1 mg	29025-1	<a href="#">Purchase 29025-1</a>
CF®740 WGA 5 mg	CF®740 29128	742/767 nm <a href="#">Purchase 29128</a>	1 mg	29128-1	<a href="#">Purchase 29128-1</a>
CF®770 WGA 5 mg	CF®770 29059	770/797 nm <a href="#">Purchase 29059</a>	1 mg	29059-1	<a href="#">Purchase 29059-1</a>
Biotin WGA 5 mg	Biotin 29095	N/A <a href="#">Purchase 29095</a>	1 mg	29095-1	<a href="#">Purchase 29095-1</a>
HRP WGA	HRP	N/A	1 mg	29073	<a href="#">Purchase 29073</a>

## Full List of Lectin Conjugates

Product	Features
<a href="#">CF® Dye Concanavalin A (Con A)</a>	<ul style="list-style-type: none"> <li>• Cell surface stain for yeast, fungi, and mammalian cells</li> <li>• Selectively binds to α-mannopyranosyl and α-glucopyranosyl residues</li> <li>• Available with a wide selection of CF® Dyes</li> </ul>
<a href="#">CF® Dye Wheat Germ Agglutinin (WGA)</a>	<ul style="list-style-type: none"> <li>• Cell surface stain for mammalian cells and gram+ bacteria</li> <li>• Also stains yeast bud scars</li> <li>• Has high affinity for sialic acid and N-acetylglucosamine</li> <li>• Choose from a wide selection of CF® Dyes or HRP</li> </ul>
<a href="#">CF® Dye Peanut Lectin (PNA) from Arachis hypogaea</a>	<ul style="list-style-type: none"> <li>• Specific for terminal β-galactose and binds preferentially to galactosyl (β-1,3) N-acetylgalactosamine</li> <li>• Choice of 4 CF® dye colors</li> </ul>

Product	Features
<a href="#">CF® Dye Lycopersicon Esculentum (Tomato) Lectin (LEL, TL)</a>	<ul style="list-style-type: none"> <li>• Marker for blood vessels and microglial cells</li> <li>• Binds to [GlcNAc] 1,3-N-acetylglucosamine, glycophorin, and Tamm-Horsfall glycoprotein</li> <li>• Used to study tumor angiogenesis or tracing neovascular development in xenograft models</li> <li>• Choice of 5 CF® Dyes or biotin</li> </ul>
<a href="#">CF® Dye Ulex Europaeus Agglutinin I (UEA I)</a>	<ul style="list-style-type: none"> <li>• Marker for human endothelial cells and incompletely differentiated gastrin cells</li> <li>• Binds to glycoproteins and glycolipids containing α-linked fucose residues</li> <li>• Choice of 5 CF® Dyes or biotin</li> </ul>
<a href="#">CF® Dye Phaseolus Vulgaris Leucoagglutinin (PHA-L)</a>	<ul style="list-style-type: none"> <li>• Used to stimulate lymphocyte and T cell proliferation</li> <li>• Choice of 5 CF® Dyes or biotin</li> </ul>
<a href="#">CF® Dye Datura Stramonium Lectin (DSL)</a>	<ul style="list-style-type: none"> <li>• Binds to (beta-1,4) linked N-acetylglucosamine oligomers</li> <li>• Choice of 5 CF® Dyes or biotin</li> </ul>
<a href="#">CF® Dye Sambucus Nigra Lectin (SNA, EBL)</a>	<ul style="list-style-type: none"> <li>• Binds to sialic acid attached to terminal galactose</li> <li>• Choice of 6 CF® Dyes or biotin</li> </ul>

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## References

Download a list of curated [CF® Dye references](#).

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Product link: <https://biotium-woo.supremeclients.com/product/wheat-germ-agglutinin-wga-cf-dye-conjugates/>