

CF® Dye PNA Lectin (Arachis hypogaea)

PNA lectin is a widely used histological fluorescent stain and is labeled with our superior CF® Dyes. It is specific for terminal β -galactose and binds preferentially to the commonly occurring structure, galactosyl (β -1,3) N-acetylgalactosamine.



Product attributes

| | |
|------------------------------------|---|
| Colors | Green, Red, Far-red, Near-infrared |
| Probe cellular localization | Membrane/cell surface |
| Cell permeability | Membrane impermeant |
| Fixation options | Fix before staining (formaldehyde), Fix after staining (formaldehyde), Fix before staining (methanol), Fix after staining (methanol), Permeabilize after staining |

Product Description

Arachis hypogaea (peanut) PNA Lectin is specific for terminal β -galactose and binds preferentially to a commonly occurring structure, galactosyl (β -1,3) N-acetylgalactosamine. PNA conjugates are widely used histological stains.

- Isolated from peanuts and purified by affinity chromatography
- Available with green, red, and far-red fluorescence
- Superior CF® Dyes are bright, photostable, and water-soluble

Lectins are proteins or glycoproteins of non-immune origin that agglutinate cells and /or precipitate complex carbohydrates. Lectins are capable of binding glycoproteins even in presence of various detergents. The lectin has a molecular weight of 110 kDa and consists of four identical subunits of approximately 27 kDa each. PNA does not agglutinate normal human erythrocytes, but strongly agglutinates neuraminidase treated erythrocytes.

Find the Right Stain for Your Application

PNA 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 stains](#) or other lectin conjugates, [Wheat Germ Agglutinin \(WGA\) Conjugates](#) and [ConA Lectin Conjugates](#), may produce better 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](#), or download our [Membrane & Surface Stains Brochure](#). 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 other fluorescent dyes. Learn more about [CF® Dyes](#).

PNA Lectin Conjugates

| Conjugation | Ex/Em | Size | Catalog No. | Dye Features |
|-------------------------|------------|------|-----------------------|----------------------------------|
| CF@488A | 490/515 nm | 1 mg | 29060 | CF@488A Features |
| CF@568 | 562/583 nm | 1 mg | 29061 | CF@568 Features |
| CF@594 | 593/614 nm | 1 mg | 29062 | CF@594 Features |
| CF@640R | 642/662 nm | 1 mg | 29063 | CF@640R Features |
| CF@740 | 742/767 nm | 1 mg | 29137 | CF@740 Features |

Full List of Lectin Conjugates

| Product | Features |
|---|--|
| CF® Dye Concanavalin A (Con A) | <ul style="list-style-type: none"> • Cell surface stain for yeast, fungi, and mammalian cells • Selectively binds to a-mannopyranosyl and a-glucoopyranosyl residues • Available with a wide selection of CF® Dyes |
| CF® Dye Wheat Germ Agglutinin (WGA) | <ul style="list-style-type: none"> • Cell surface stain for mammalian cells and gram+ bacteria • Also stains yeast bud scars • Has high affinity for sialic acid and N-acetylglucosamine • Choose from a wide selection of CF® Dyes or HRP |

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

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References

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

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