

Product Information

CF® Dye PNA Lectin from *Arachis hypogaea* (Peanut)

Catalog No.	Conjugate	Absorption/Emission*
29060	CF@488A	490/515 nm
29061	CF@568	562/583 nm
29062	CF@594	593/614 nm
29063	CF@640R	642/662 nm

* In pH 7.4 PBS buffer

Unit Size: 1 mg

Storage and Handling

Store at -20°C, protected from light. Product is stable for at least one year from date of receipt when stored as recommended.

Product Description

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. *Arachis hypogaea* lectin or peanut agglutinin (PNA) is isolated from peanuts and purified by affinity chromatography. 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. Lectin PNA is specific for terminal β -galactose and binds preferentially to a commonly occurring structure, galactosyl (β -1,3) N-acetylgalactosamine.

Preparing stock solutions

Stock solutions can be made at 1 mg/mL in deionized water. Store solutions at 4°C with the addition of 2 mM sodium azide. For longer term storage, aliquot the conjugate solution and store at -20°C; avoid repeated freeze-thaw cycles. Protect from light.

Guidelines for use

Centrifuge the protein conjugate solution briefly in a microcentrifuge before use, and use the supernatant to prepare staining solution. This step will eliminate any protein aggregates that may have formed during storage, thereby reducing nonspecific background staining.

Because staining protocols vary with application, the appropriate dilution of lectin PNA conjugate should be determined empirically. Typically, a final concentration of 2-20 μ g/mL is used for fluorescence staining applications. We recommend diluting the conjugate in HEPES-buffered saline with 4 mg/mL BSA for staining.

Related Products

Cat. No.	Product Name
29021-29073	CF® Dye and HRP Wheat Germ Agglutinin (WGA) Conjugates
29015-29020; 29058	CF® Dye Concanavalin A (Con A)
23007	TrueBlack® Lipofuscin Autofluorescence Quencher
40061	RedDot™2 Far-Red Nuclear Counterstain
40083	NucSpot® 470 Green Nuclear Counterstain
23001-23002	EverBrite™ Mounting Medium (with or without DAPI)
23003-23004	EverBrite™ Hardset Mounting Medium (with or without DAPI)
23008-23009	Drop-n-Stain EverBrite™ Mounting Medium (with or without DAPI)
23005	CoverGrip™ Coverslip Sealant

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