

Product Information

CF™ Wheat Germ Agglutinin Conjugates (WGA)

Catalog No.	Quantity	Product	Storage	Stability
29021-1	1 mg	CF™350 WGA	-20°C Protect from light Stable for at least one year from date of reception if stored as recommended	
29021	5 x 1 mg			
29022-1	1 mg	CF™488A WGA		
29022	5 x 1 mg			
29023-1	1 mg	CF™594 WGA		
29023	5 x 1 mg			
29024-1	1 mg	CF™633 WGA		
29024	5 x 1 mg			
29026-1	1 mg	CF™640R WGA		
29026	5 x 1 mg			

To make a 2 mg/ml stock solution, dissolve 1 mg of lyophilized WGA conjugate in 0.5 ml phosphate-buffered saline (PBS) or water. Lyophilized WGA contains 0.05% sodium azide. Stock solution can be stored at 2-8°C for short-term storage or at -20°C for long-term, protect from light under both conditions.

Spectral Properties

Conjugate	Absorption (nm)	Emission (nm)
CF™350	347	448
CF™488A	490	515
CF™594	593	614
CF™633	630	650
CF™640R	642	662

$\lambda_{\text{abs}}/\lambda_{\text{em}}$ in pH 7.4 PBS buffer

Introduction

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Recommended Guidelines for Staining Cells

Buffers for staining bacterial cells

- BSA-NaCl buffer: 0.15 M NaCl and 0.25% bovine serum albumin (BSA). (Note: this buffer is not recommended for CF640R-WGA)
- 3 M KCl
- Staining in PBS is not recommended because it can reduce staining efficiency.

Buffers for staining mammalian cells

- Hank's balanced salt solution (HBSS) without phenol red

Procedural Guidelines

- **Final concentration.** Recommended starting concentration for staining bacterial cells is 50-100 ug/ml, and 5 ug/ml for mammalian cells.
- **Labeling.** Wash cells once in suitable buffer before staining with WGA conjugate will help reduce background due to particulates in culture medium.

Incubate cells with WGA for 10 minutes at room temperature for bacterial cells and 37°C for mammalian cells.

- **Wash.** The WGA solution should be removed if additional staining is required such as counterstaining with DAPI
- **Fixed Cells.** Labeling with WGA conjugate is also compatible with fixed mammalian cells. However, staining with WGA should be performed **prior** to permeabilizing cells.