

Product Information

CF™568, Hydrazide

Catalog Number **SCJ4600025**

Storage Temperature –20 °C

TECHNICAL BULLETIN

Product Description

CF™568, hydrazide can be used as a fixable polar tracer for visualizing cell morphology, or for labeling biomolecules with an aldehyde or ketone group (such as carbohydrate molecules after peroxidation with periodate).

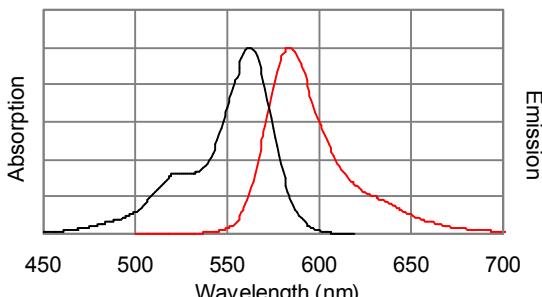
CF568 is a red fluorescent dye with an excitation spectrum optimally matching the 568 nm line of the Ar-Kr mixed-gas laser. Antibody conjugates of CF568 are much brighter than those of Alexa Fluor® 568. In addition, the photostability of CF568 is superior to that of Alexa Fluor 568, making CF568 a much better choice for demanding applications such as confocal microscopy and single molecule imaging.

CF568 dye properties:

Abs/Em Maxima: 562/583 nm (See Figure 1)
Extinction coefficient: 100,000
Molecular weight: ~700
 A_{280}/A_{max} or CF (correction factor for estimating degree of protein labeling): 0.08
Flow cytometry laser line: 488, 532, or 561 nm
Microscopy laser line: 568 nm
Direct replacement for: Alexa Fluor 568 and Rhodamine Red

Figure 1.

Absorption and emission spectra of CF568 conjugated to goat anti-mouse IgG in PBS.



Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

Stock solutions may be prepared in water or PBS. Stock solutions may be stored at –20 °C for at least 6 months.

Storage/Stability

Store the dye desiccated at –20 °C. When stored as directed, the dye should remain active for at least 6 months.

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