Image-iT® FX Signal Enhancer

#11932 Store at RT

☐ 10 ml
☐ Sample Size

Cell Signaling TECHNOLOGY®

Orders ■ 877-616-CELL (2355)
orders@cellsignal.com
Support ■ 877-678-TECH (8324)
info@cellsignal.com
Web ■ www.cellsignal.com

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For Research Use Only. Not For Use In Diagnostic Procedures.

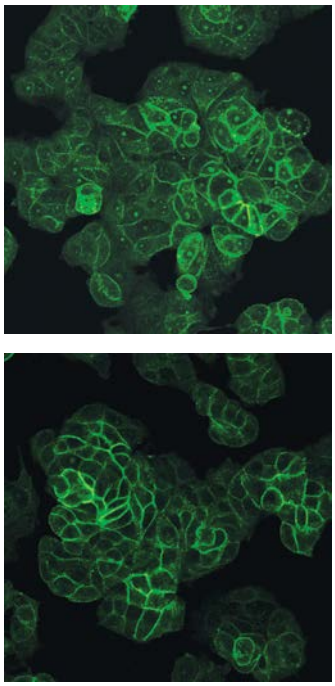
Applications	Species Cross-Reactivity
IF-F, IF-IC, IF-P	All

Fluorescent Dyes Succefully Tested with the Image-iT® FX Signal Enhancer

Dyes with Potentially Strong Background Fluorescence[1]
Fluorescein
Oregon Green® 488 & 514
Tetramethylrhodamine
Texas Red®
Cascade Yellow™
Dy 565 & 630
Atto 590 & 610
Alexa Fluor® 405, 430, 488, 500, 514, 555, 568, 594, 610, 633, 635, 647, 660, 680, 700, & 750
Cascade Blue®
Dyes with Potentially Weak Background Fluorescence[1]
Cy 5
Dy 635
Marina Blue®
Alexa Fluor® 532 & 546
Allophycocyanin
R-phycoerythrin
DyeMer™ 488/605, 488/615, & 488/630
Background-Free Fluorescent Dyes[2]
Alexa Fluor® 350
IRTM 790
Cy 3
Pacific Blue™
Rhodamine B
Rhodamine Red™-X
Texas Red®-X
Dy 550 & 610

[1] Background staining was blocked by Image-iT® FX signal enhancer.
[2] Staining was unaffected by Image-iT® FX Signal enhancer.

Description: Alexa Fluor® and many other anionic fluorescent dyes and proteins can bind nonspecifically with cationic cell and tissue constituents. By efficiently blocking these nonspecific electrostatic interactions, Image-iT® FX Signal Enhancer can dramatically improve the signal-to-noise ratio of immunolabeled cells and tissues. Image-iT® is a liquid that is applied directly to slides or coverslips containing fixed and permeabilized cell or tissue samples prior to staining with fluorescent probes.



Confocal immunofluorescent analysis of MCF7 cells using EpCAM (D1B3) Rabbit mAb #2626 (green) either untreated (upper), or treated with Image-iT® FX Signal Enhancer (lower). Note the reduction in non-specific, nucleolar background following pre-treatment with Image-iT® FX Signal Enhancer.

Storage: Store at room temperature. This product is stable for 12 months.

Directions for Use: Following specimen preparation:
1. Permeabilize the cells in Permeabilization Buffer for 5 minutes at room temperature.
2. Rinse three times in PBS for 5 minutes each.
3. Apply 3–4 drops of Image-iT® FX Signal Enhancer (or sufficient volume to cover the cells) and incubate for 30 minutes at room temperature.
4. Rinse three times with PBS for 5 minutes each.
5. Block specimen in Blocking Buffer for 60 minutes.
6. While blocking, prepare primary antibody by diluting as indicated on datasheet in Antibody Dilution Buffer.
7. Aspirate blocking solution, apply diluted primary antibody.
8. Incubate overnight at 4°C.
9. Rinse three times in PBS for 5 minutes each.
10. Coverslip slides with Prolong® Gold Antifade Reagent.
11. For best results, examine specimens immediately using appropriate excitation wavelength. For long-term storage, store slides flat at 4°C protected from light.

Applications Key: **W**—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide
Species Cross-Reactivity Key: **H**—human **M**—mouse **R**—rat **Hm**—hamster **Mk**—monkey **Mi**—mink **C**—chicken **Dm**—D. melanogaster **X**—Xenopus **Z**—zebrafish **B**—bovine **Dg**—dog **Pg**—pig **Sc**—S. cerevisiae **Ce**—C. elegans **Hr**—horse **All**—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.