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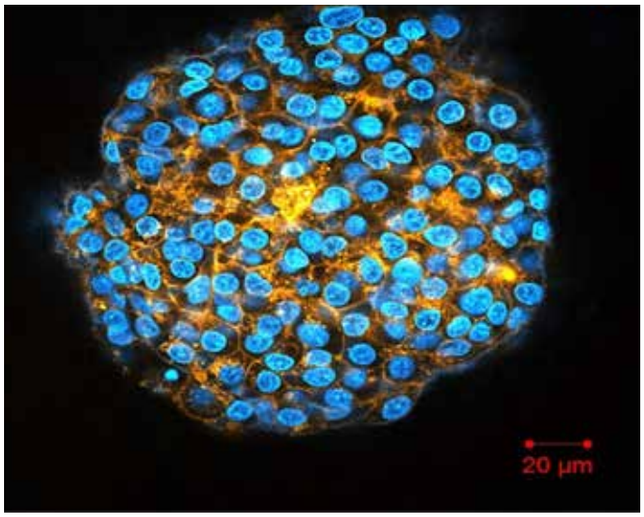
CellO-IF: The Smarter Way to Label

All-in-one Reagent for Immunofluorescence Labelling of Organoids, Spheroids and Cells



Liver Cancer Spheroid labelled using CellO-IF technology - Tak et al (2022)

Simplify the steps of immunofluorescence labelling and maximize your results. The CellO-IF innovative technology allows you to stain organoids, spheroids or cells in just 8 hours, while still in hydrogel or extracellular matrix, preserving delicate structures and cellular integrity.

This all-in-one reagent removes the need for harvesting, clearing, transferring and centrifuging, preventing sample loss and ensuring consistent accurate results.

Are you having issues with unsuccessful labelling of precious samples?

Features

- High quality images in hours, not days.
- Reduced number of reagents and steps.
- Label organoids, spheroids, and cells while still in hydrogel or extracellular matrix.
- Reduces background noise for high-resolution images.
- Boosted antigenicity for clearer visualization of target.

Benefits

- Faster Results.
- Streamlined Workflows.
- Effortless labelling.
- Enhanced Clarity.
- Optimize detection.

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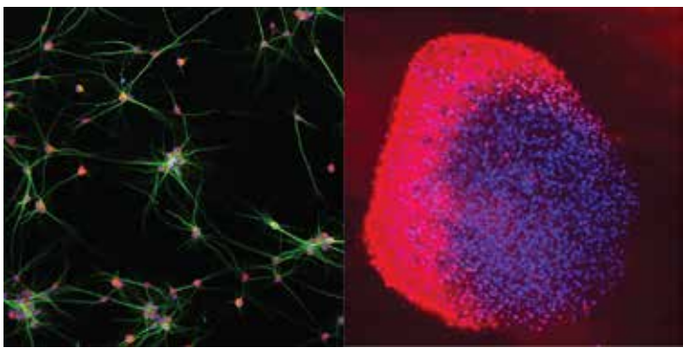
PROTOCOL FOR USE

1. Fix in 4% paraformaldehyde (PFA) for 1 hr at 37°C.
2. Rinse with PBS X3, 10 min at 37°C.
3. Incubate for 1.5-2 hrs at 37°C with primary antibodies diluted in CellO-IF.
4. Wash with CellO-IF X3, 10 min at 37°C.
5. Incubate for 1.5-2 hrs with secondary antibodies diluted in CellO-IF.
6. Wash with PBS X3, 10 min at 37°C.
7. Mount & image under microscope.

	Traditional Workflow	Workflow with CELLO-IF
Reagents	>3	1
Steps	24	8
Transferring & Pipetting	>3	0
Time	~44 hours	8 hours

Available in two formats for labelling both 3D and 2D samples producing high quality images.



Left: Induced Pluripotent Stem Cell Derived Neurons (MAP2 - green, CREB - red, DAPI - blue).
Right: Brain Organoid (PAX2 - red, DAPI - blue).

"We really didn't think imaging the neuronal organoids would be as easy because they are so fragile and difficult to section with traditional methods. Using CellO™-IF simplified our workflow and it has great potential to make high-throughput imaging of organoids feasible. We got beautiful images using CellO-IF on both 2D and 3D cultures."

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