Cellorama®

CellO® - IF2 : All-in-One Labeling Reagent for Cells

Simple Protocol, Unparalleled Accuracy

Product Description:

CellO®-IF2 is an all-in-one reagent specifically designed for immunofluorescent staining of cells.

Key Features:

- **Efficiency:** Reduces the number of staining steps and saves time.
- **Convenience:** Simplifies the workflow and minimizes the risk of errors.
- **Versatility:** Allows for the simultaneous analysis of multiple markers within the same sample.
- **High Quality Images:** Boosts antigenicity for clearer visualization of target and reduces background
- **Simplicity:** Eliminates separate antigen retrieval, permeabilization and blocking steps

Content: CellO®-IF2, All-in-One Reagent, Ready-to-Use

- For Research Use Only
- Not for use in diagnostic procedures

Amount:

- Catalog No. 248221 15 mL
- Catalog No. 248222 45 mL
- Catalog No. 248224 90 mL

Storage: Store at 2-8°C, Keep in dark

- Avoid thawing cycles of CellO®-IF2, and warm only the needed amount at each experiment.

Expiration Date:

- The expiration date is printed on the item.

Caution:

- Wear appropriate protective eyewear, clothing, and gloves.
- Read the Safety Data Sheet (SDS) and follow the handling instructions.
- In the event of accidental ingestion or contact with the eyes, immediately wash the effected area and seek medical attention.

Product Information Sheet:
IF Labeling Protocol :
Safety Data Sheet (SDS):

Immunofluorescent Labeling Protocol:

Materials Needed :

CellO®-IF2 / PBS / Primary Antibody / Secondary Antibody

- Warm solutions at 37°C prior to the experiment.
- Aspirate growth medium

Protocol:

- Grow cells in a culture vessel with high optical quality
- Aspirate growth medium
- Fix in 4% paraformaldehyde (PFA) for 10-15 min

All steps after fixation are performed at 37°C:

- Remove the fixative and wash with CellO-IF2, X3, 5 min
- Incubate for 30 min- 1 hr at 37 C with primary antibody diluted in CellO®-IF2
- Wash with CellO®-IF2, X3, 5 min
- Incubate for 30 min – 1 hr with secondary antibody diluted in CellO®-IF2
- Wash with PBS, X3, 5 min
- Mount & Image under a microscope

Technical Note:

- Growing cells in a culture vessel with high optical quality is essential for obtaining clear microscope images. This protocol is compatible with various cell culture vessels that feature high optical quality bottoms, including coverslips, micro-chambered slides, glass-bottomed dishes, glass-bottomed organ-on-chip models, and CellO-M dishes.
- A low-speed orbital shaker at every step or a shaking incubator at 37°C may facilitate labeling and even staining.
- DO NOT leave samples in CellO®-IF2 longer than recommended.
- The recommended dilutions from the manufacturer for both primary and secondary antibodies work for many experiments. The user may need to optimize some antibodies' dilution rates as in conventional methods.
- Multiple Labeling: : Instead of preparing separate solutions for each primary antibody, you combine all the primary antibodies you plan to use in a single batch of the CellO®-IF2 reagent. Just like with the primaries, you combine all the necessary secondary antibodies into a single solution of the CellO®-IF2 reagent. Selecting the appropriate secondary antibodies is crucial to prevent overlapping signals and ensure accurate staining. overlapping signals and ensure accurate staining.
- Glycerol or commercially available aqueous mounting media are suitable for mounting labeled samples.
- Mounting medium for nuclear labeling: 1,2 uL Hoechst or DAPI +675 uL PBS + 675 uL Glycerol