CellO-IF2 : All-in-One Labeling Reagent for Cell

Achieve Clear, Accurate Labeling of the Entire Protected Sample Examine Multiple Targets in Hours

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
- 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 shelf life is 1 year from the date of manufacture.
- The expiration date is printed on the item.

Caution:

- Wear appropriate protective eyewear, clothing, and gloves.
- Read the Sayety 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.

Immunofluorescent labeling with CellO-IF2:

Materials Needed :

CellO-IF2 / PBS / Primary Antibody / Secondary Antibody

Protocol:

- Solutions are warmed prior to the experiment at 37°C.
- 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-IF3, 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:

- The protocol is compatible with various cell culture vessels with the high optical quality bottoms, like coverslips, micro-chambered slides, glass-bottomed dishes, 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: Primary antibodies are diluted in the same CellO-IF2. Similarly, the corresponding secondary antibodies are also diluted in the same reagent. Selecting the appropriate secondary antibodies is crucial to prevent 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 Glycero