

FIX&PERM[®] Cell Fixation and Permeabilization

Reaching targets for better flow cytometry staining

Intracellular staining of protein biomarkers using antibodies in flow cytometry now allows a number of ways for phenotypic and functional characterization of cells in both research and clinical diagnosis.

Definitive phenotypic identification of certain cell types can require labelling of both cell surface and intracellular markers. The cytoplasmic localization of typical membrane molecules can also prove to be a reliable lineage marker, such as cytoplasmic CD3 and CD22 in undifferentiated leukemia.

We can provide cell fixation and permeabilization reagents which assist antibodies to optimally stain their cell protein biomarkers.

FIX&PERM[®]

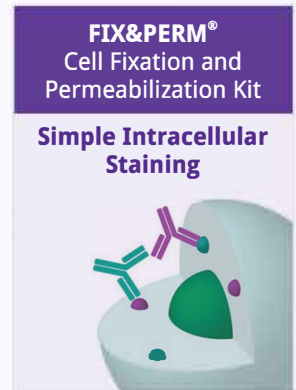
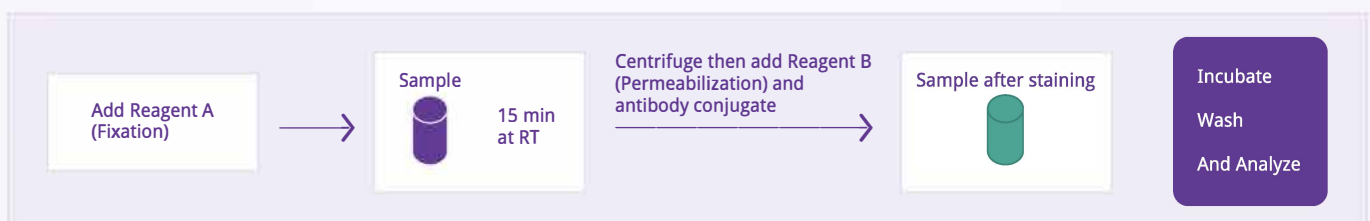
- Mildly fixes cells, preserving their flow cytometric scatter characteristics
- Allows simultaneous characterization of both intracellular and cell surface markers
- Rapid technique – whole procedure can be carried out in less than one hour, ready for immediate analysis or storage for 24 hours at 4°C
- Stringent QC procedures – the quality of each lot is determined using well-defined blood samples and subsequent comparison of scatter characteristics of obtained leukocyte populations, ensuring consistent and reliable results lot after lot
- A range of intracellular antibodies with optimized protocols for use with FIX&PERM[®]

Choose from our range of complete kits or separate components:

| Product Name | Quantity | Catalog Number |
|--|----------|----------------|
| FIX&PERM [®] Kit (CE) | 2x20ml | orb180078 |
| FIX&PERM [®] Sample Kit (CE) | 2x5ml | orb180079 |
| FIX&PERM [®] Kit 1000 (CE) | 2x100ml | orb180080 |
| FIX&PERM [®] Solution A (Fix) (CE) | 1x100ml | orb180081 |
| FIX&PERM [®] Solution B (Perm) (CE) | 1x100ml | orb180082 |
| NM LYSE: Flow Cytometry Lysing | 30ml | orb180088 |
| NM LYSE: Flow Cytometry Lysing Solution | 100ml | orb180089 |

How does it work?

FIX&PERM[®] is a simple procedure making use of two reagents. Reagent A gently fixes cells, while Reagent B permeabilizes them. The specific formulations reduce background and allow simultaneous addition of permeabilization reagent and fluorochrome labelled antibodies.



Available in Canada from...



Products optimized for use with FIX&PERM® for leukemia detection via flow cytometry

The majority of available monoclonal antibody conjugates can be used with FIX&PERM® and are CE certified. However, in some cases the fixation step may have to be optimized.

We offer a number of mouse anti-human conjugated (PE/FITC) monoclonal antibodies ready for use with FIX&PERM®.

| Antigen | Clone | Isotype | Format | Quantity | Catalog Number |
|--------------------|--------|---------|--------------|-----------|----------------|
| CD3 | UCHT1 | IgG1 | Purified | 0.2 mg | orb180041 |
| CD3 | UCHT1 | IgG1 | PE-labeled | 100 tests | orb180043 |
| CD14 | MEM18 | IgG1 | Purified | 0.2 mg | orb180061 |
| CD14 | MEM18 | IgG1 | FITC-labeled | 100 tests | orb180062 |
| CD22 | RFB4 | IgG1 | Purified | 0.2 mg | orb180044 |
| CD22 | RFB4 | IgG1 | FITC-labeled | 100 tests | orb180045 |
| CD22 | RFB4 | IgG1 | PE-labeled | 100 tests | orb180046 |
| CD45 | VIT200 | IgG2a | Purified | 0.2 mg | orb180064 |
| CD45 | VIT200 | IgG2a | FITC-labeled | 100 tests | orb180065 |
| CD65s | VIM2 | IgM | Purified | 0.2 mg | orb180066 |
| CD65s | VIM2 | IgM | FITC-labeled | 100 tests | orb180067 |
| CD68 (Macrosialin) | Ki-M7 | IgG1 | FITC-labeled | 100 tests | orb180047 |
| Lactoferrin | 4C5 | IgG1 | Purified | 0.2 mg | orb180051 |
| Lactoferrin | 4C5 | IgG1 | PE-labeled | 100 tests | orb180052 |
| Myeloperoxidase | 8E2 | IgG1 | Purified | 0.2 mg | orb180048 |
| Myeloperoxidase | 8E2 | IgG1 | FITC-labeled | 100 tests | orb180049 |
| Myeloperoxidase | 8E2 | IgG1 | PE-labeled | 100 tests | orb180050 |
| Lysozyme | LZ-2 | IgG1 | Purified | 0.2 mg | orb180053 |
| Lysozyme | LZ-2 | IgG1 | FITC-labeled | 100 tests | orb180054 |
| Lysozyme | LZ-2 | IgG1 | PE-labeled | 100 tests | orb180055 |
| Cd68 | Ki-M7 | IgG1 | FITC-labeled | 100 tests | orb180047 |
| Negative Control | VI-AP | IgG1 | Purified | 100 tests | orb180083 |
| Negative Control | VI-AP | IgG1 | FITC-labeled | 100 tests | orb180084 |
| Negative Control | VI-AP | IgG1 | PE-labeled | 100 tests | orb180085 |

Furthermore, a number of Combination Panels are offered for dual immunostaining protocols.

| Antigen | Clone | Isotype | Format | Quantity | Catalog Number |
|--|-------|----------------|-------------|----------|----------------|
| Negative control | UCHT1 | IgG1 | FITC and PE | 50 tests | orb180086 |
| IgG2a Negative Control and IgG1 Negative Control | UCHT1 | IgG1 and IgG2a | FITC and PE | 50 tests | orb180087 |
| Myeloperoxidase-C2 and Lactoferrin | UCHT1 | IgG1 | FITC and PE | 50 tests | orb180056 |
| Myeloperoxidase-C2 and CD3 | MEM18 | IgG1 | FITC and PE | 50 tests | orb180057 |
| Myeloperoxidase-C2 and CD22 | MEM18 | IgG1 | FITC and PE | 50 tests | orb180058 |
| Lysozyme and Lactoferrin | RFB4 | IgG1 | FITC and PE | 50 tests | orb180059 |
| CD45 and CD14 | RFB4 | IgG1 and IgG2a | FITC and PE | 50 tests | orb180060 |