DURACTIVE
BE CERTAIN ABOUT THE RESPONSE

Your clinical research trial companion

VISUALIZE
the possibilities.

For Research Use Only - Not for use in diagnostic procedures
BE CERTAIN ABOUT THE RESPONSE

Functional assays such as induction of cytokine expression typically involve time-critical thawing of frozen stimulation cocktails and liquid handling of resulting small volumes. The DurActive stimulation kits eliminate freeze-storage and error-prone liquid handling as they are dry ready-to-use stimulation mixes in unitized 1-test-format, stable at room temperature.

DurActive dry stimulation mixes ensure reliability of the first crucial step in cellular activation assays before a precisely coordinated signaling cascade can yield its response.
Dry Stimulation Mixes for Immune Functional Assays

The DurActive stimulation kits contain optimally dosed physiologically active compounds provided as unitized single tests in 12x75 mm tube format.

- Pre-formulated mixes containing 2-3 active compounds
- Unitized dry Beckman Coulter proprietary format
- Expert-proven dosing
- 25 tests/package

<table>
<thead>
<tr>
<th>Contained Stimulating Agents</th>
<th>Tested Sample Volumes</th>
<th>Activation Characteristics</th>
<th>Matching DuraClone Antibody Panel</th>
</tr>
</thead>
</table>
| DurActive 1
C11101 (25 tests, RUO)     | PMA / Ionomycin / Brefeldin A | 50 μL heparinized whole blood
0.5x10^6 PBMCs in 50 μL suspension | Broad activation
Inhibition of secretion | DuraClone IF T Activation
DuraClone IF T Helper Cell |
| DurActive 2
C11102 (25 tests, RUO)     | PMA / Ionomycin | 50 μL heparinized whole blood
0.5x10^6 PBMCs in 50 μL suspension | Broad activation | Detection of soluble compounds,
DuraClone IF T Activation,
DuraClone IF T Helper Cell
(using secretion inhibitors such as Monensin) |
| DurActive 3*          | LPS / Brefeldin A | 50 μL heparinized whole blood
0.5x10^6 PBMCs in 50 μL suspension | Innate immune responses
Inhibition of secretion | IF Monocyte Activation* |

MAKE YOUR LABORATORY A SAFER PLACE

DurActive reaction tubes can be handled outside the laboratory hood and minimize the risk of biohazardous or chemical exposure. The unitized 1-test-tubes contain only non-hazardous amounts of the stimulating agents and are devoid of organic solvents.

Each DuraClone tube is labeled with the complete product information. The absence of hazard warnings reflects the safe handling of the dry stimulation mixes.
STREAMLINE YOUR WORKFLOW WITH DurActive

Every DurActive tube contains a layer with the dried-down stimulation mix. The avoidance of freezing, thawing and diluting prior to the functional assay as well as the elimination of stimulation mix pipetting during the experimental protocol make functional assays a lean procedure.

Workflow for Stimulation Using DurActive

Add whole blood or PBMCs to DurActive tube → Incubate at 37°C → Continue with analytical procedure (e.g. protocol for DuraClone IF kits)

Options for Flow Cytometry analysis:

- CytoFlex
- Navios / Gallios
- Kaluza analysis software

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Comparison of cytokine expression as induced by DurActive 1 vs analogue liquid stimulation cocktail in identical whole blood samples
ADVANCING FUNCTIONAL CYTOMETRY WITH DurActive, DuraClone IF & PerFix-nc

The DuraClone IF antibody panels reveal immune function at the single cell level utilizing a streamlined and simplified intracellular staining workflow.

<table>
<thead>
<tr>
<th>405 nm</th>
<th>488 nm</th>
<th>633 nm</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Product</strong></td>
<td><strong>PB</strong>(1)</td>
<td><strong>KrO</strong>(2)</td>
</tr>
<tr>
<td>IF T Activation</td>
<td>CD4</td>
<td>-</td>
</tr>
<tr>
<td>B88649 (25 tests RUO)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IF T Helper Cell</td>
<td>IL-17A</td>
<td>-</td>
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<tr>
<td>CO4666 (25 tests RUO)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IF Monocytes Activation</td>
<td>CD14</td>
<td>CD45</td>
</tr>
<tr>
<td>(2018, configuration not final)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The DuraClone IF kits are optimized for use with the PerFix-nc kit (B31167 and B31168) allowing for staining of surface and intracellular antigens in a single step.

(1) PB: Pacific Blue*
(2) KrO: Krome Orange
(3) AF700: Alexa Fluor® 700
(4) AF750: Alexa Fluor® 750

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Choose Beckman Coulter for Benchmark Expertise and Innovation

For over 80 years Beckman Coulter has driven innovation. We remain committed to shaping flow cytometry technology to fit seamlessly into your lab’s workflow and to provide an optimal user experience. When you choose a Beckman Coulter solution you receive the high level of expertise, innovation, and quality assurance.

Contact your local Beckman Coulter sales representative.

or visit http://beckman.com/reagents/coulter-flow-cytometry/antibodies-and-kits/duraclone-panels