

Cell Encoder Kits

Application of IntelliCyt's Cell Encoder Kits to Multiplex Cell-based Assays Increases Productivity and Reduces Reagent Costs

Key Features & Benefits

FEATURES

- Color code up to four cell lines/types per sample
- Condensed format for multiplex experiments; low sample volume requirements
- Simple and accessible software templates to analyze each population separately

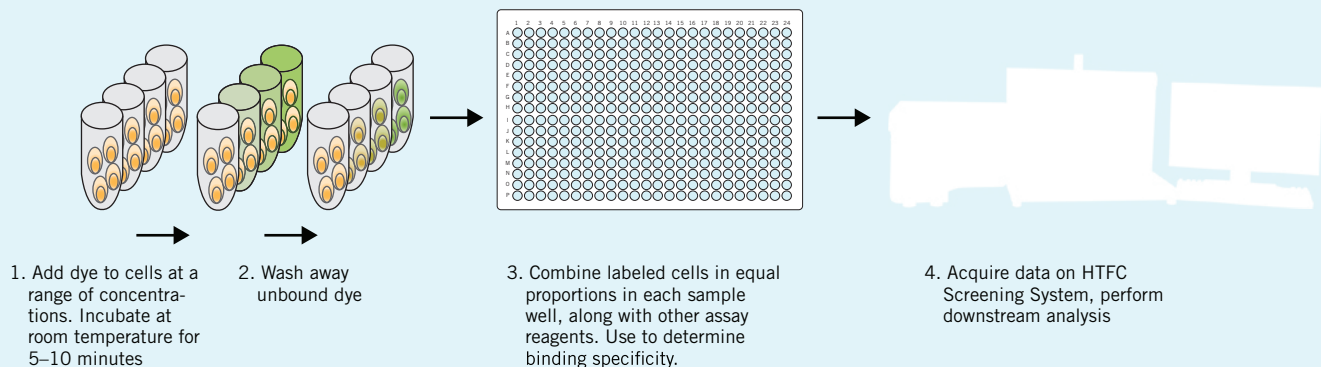
BENEFITS

- Simultaneously test multiple cell lines in every well of your screening plates
- Reduces reagent use and assay variability; maximize correlations; increase productivity
- Seamless transformation of complex data into easily accessible and meaningful results

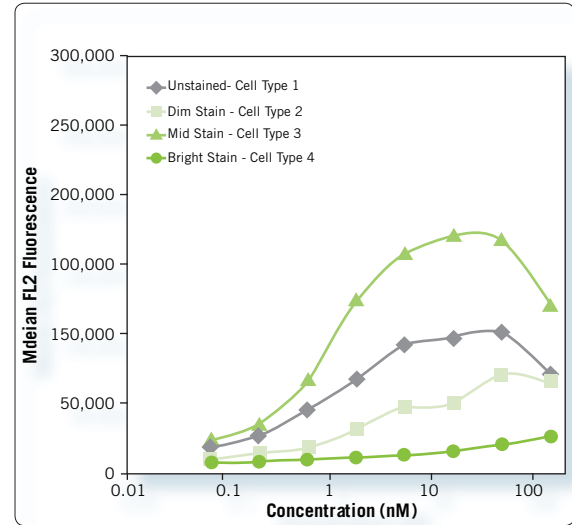
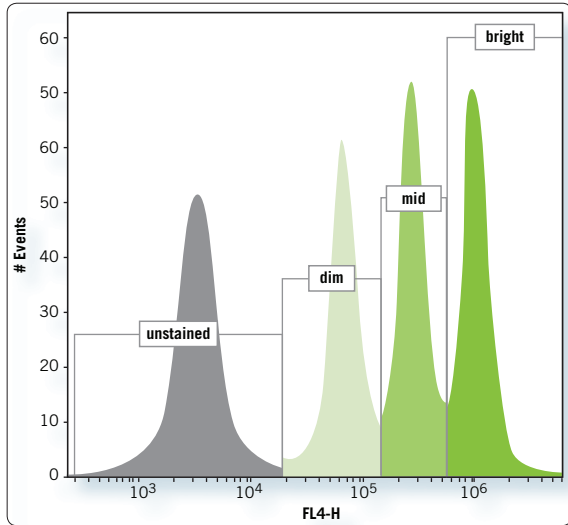
Using the multiplexing capabilities of a high capacity flow (HCF) screening approach, different cell populations can be distinguished by pre-labeling each population with a different intensity of a fluorochrome, establishing a unique signature of fluorescence intensity for each population.

The color coded cell lines are physically combined into a single suspension and distributed into the wells of your assay plate. After sampling and data acquisition, the cell lines from each sample can be identified and individually evaluated for readouts of interest, such as antibody binding.

IntelliCyt Cell Encoder Kit Workflow



Example Cell Encoder Kit Results



For each sample, data from the 4-differentially labeled cell types can be individually analyzed for an assay endpoint. Cells can be identified based on the encoding signal intensity (FL4), then data for a single population (unstained, dim, mid, or bright) can be quantified for the assay readout.

The robustness of the encoder dye has been determined in studies where cells were encoded at different intensities of dye, and then a secondary detection reaction (anti-CD45) was performed. For each cell population, the presence of encoding dye did not have any effect on the normal binding

of the antibody or ability to detect a cell surface protein. In summary, IntelliCyt's Cell Encoder Kit helps leverage the value of high capacity flow by providing a simple and robust solution to multiplexing of up to four different cell types per sample in an easy-to-use assay protocol.

For more information on IntelliCyt products and services, contact us at info@intellicyt.com

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