Package 'flowFitExampleData'

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Type Package

Title Example data for the flowFit package

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Description Two dataset that can be used to run examples from the flowFit vignette and examples

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biocViews FlowCytometry, CellBasedAssays, Bioinformatics

Depends R (>= 2.12.2), flowCore

Imports methods

R topics documented:

PKH26data *genFitting: example data with PKH26 stain*

Description

example data with PKH26 dye. Two samples: NONPROL (parent population) and PROL (proliferating population).

Usage

```
data(PKH26data)
```

Format

The format is an object of class flowSet with 2 flowFrame

QuahAndParish *Example dataset from: New and improved methods for measuring lymphocyte proliferation in vitro and in vivo using CFSE-like fluorescent dyes (Benjamin J C Quah and Christopher R Parish, 2012)*

Description

Detection of lymphocyte division by carboxyfluorescein diacetate succinimidyl ester (CFSE), Cell Trace Violet (CTV) and Cell Proliferation Dye eFluor 670 (CPD) in vitro.

Usage

```
data(QuahAndParish)
```

Format

The format is an object of class flowSet with 4 objects of class flowFrame

1. Fig 2a All CD4 T Nonstim.fcs Control sample including non-activated cells (non-dividing) labelled with CFSE, CPD and CTV
2. Fig 2a CFSE CD4 T Stim.fcs CD4 T cells stained with CFSE
3. Fig 2a CPD CD4 T Stim.fcs CD4 T cells stained with CPD
4. Fig 2a CTV CD4 T Stim.fcs CD4 T cells stained with CTV

The phenodata lists:

Filename The filename

SampleType The sample type (Nonstim or Stim)

Stain Stain type

CellType Cell type

Details

This QuahAndParish dataset represents the measurements of CD4 T cells division by CFSE, CTV and CPD in vitro. Spleen cells from B6 mice were labelled with $10\mu M$ CFSE, CTV and/or CPD and cultured for 4 days in the presence of a range of polyclonal stimuli that activate T and B cells. Viable CD4+ cells were discriminated using specific antibody staining. The dataset represent the measurements used in figure 2a (CD4+ population) from the paper: New and improved methods for measuring lymphocyte proliferation in vitro and in vivo using CFSE-like fluorescent dyes (Benjamin J C Quah and Christopher R Parish, 2012).

References

1. Benjamin J.C. Quah, Christopher R. Parish, New and improved methods for measuring lymphocyte proliferation in vitro and in vivo using CFSE-like fluorescent dyes, Journal of Immunological Methods, Volume 379, Issues 1-2, 31 May 2012, Pages 1-14, ISSN 0022-1759, 10.1016/j.jim.2012.02.012.

Index