# Package 'flowFitExampleData'

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Type Package	
Title Example data for the flowFit package	
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Author davide Rambaldi	
Maintainer Davide Rambaldi <davide.rambaldi@gmail.com></davide.rambaldi@gmail.com>	
<b>Description</b> Two dataset that can be used to run examples from the flowFit vignette and examples	
License Artistic-2.0	
biocViews FlowCytometry, CellBasedAssays, Bioinformatics	
<b>Depends</b> R (>= 2.12.2), flowCore	
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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

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### **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

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.

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