

# Package ‘flowFitExampleData’

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**Type** Package

**Title** Example data for the flowFit package

**Version** 1.10.0

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

**License** Artistic-2.0

**biocViews** FlowCytometryData

**Depends** R (>= 2.12.2), flowCore

**Imports** methods

**NeedsCompilation** no

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## 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`

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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)*

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### 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.

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