

Datasheet: DC002

Description:	MOUSE ANTI HUMAN CD3:FITC/CD4:RPE
Specificity:	CD3/CD4
Format:	FITC/RPE
Product Type:	Dual Color Reagent
Clone:	UCHT1/RPA-T4
Isotype:	Cocktail
Quantity:	50 TESTS

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	■			Neat

Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Antibody Isotypes

FITC reagent: IgG1 (MOUSE)
RPE reagent: IgG1 (MOUSE)

Target Species

Human

Product Form

Dual Colour combination consisting of FITC conjugated and RPE conjugated monoclonal antibodies mixed in optimal ratio - lyophilised.

Reconstitution

Reconstitute with 0.5 ml distilled water

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
FITC	490	525
RPE 488nm laser	496	578
RPE 561nm laser	546	578

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide
1% Bovine Serum Albumin
5% Sucrose

External Database Links

UniProt:

[P04234](#)

[Related reagents](#)

[P07766](#) [Related reagents](#)

[P01730](#) [Related reagents](#)

[P09693](#) [Related reagents](#)

Entrez Gene:

[915](#) CD3D [Related reagents](#)

[916](#) CD3E [Related reagents](#)

[917](#) CD3G [Related reagents](#)

[920](#) CD4 [Related reagents](#)

Synonyms

T3D, T3E, T3G

Specificity

UCHT1 recognises the human CD3 antigen, which is expressed by all mature T cells.

RPA-T4 recognises the human CD4 antigen, a 56 kDa glycoprotein expressed by the helper-inducer subset of T cells. CD4 is also weakly expressed by monocytes.

DC002 may be used to simultaneously identify CD3 and CD4 positive cells, and to identify populations of cells that co-express these antigens.

Flow Cytometry

Use 10ul to label 100ul whole blood.

References

1. Beverley, P. *et al.* (1981) Distinctive functional characteristics of human "T" lymphocytes defined by E rosetting or a monoclonal anti-T cell antibody. [Eur. J. Immunol. 11: 329-334.](#)
2. Parnes, J.R. *et al.* (1989) Molecular biology and function of CD4 and CD8. [Adv. Immunol. 44: 265-311.](#)

Storage

Prior to reconstitution store at +4°C. Following reconstitution store at +4°C.

DO NOT FREEZE.

This product should be stored undiluted. This product is photosensitive and should be protected from light. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life

12 months from date of reconstitution.

Health And Safety Information

Material Safety Datasheet documentation available at:
Material Safety Datasheet Documentation #10075 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf>

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[MOUSE IgG1:FITC/MOUSE IgG1:RPE NEGATIVE CONTROL \(DC012\)](#)

Recommended Useful Reagents

[HUMAN SEROBLOCK \(BUF070A\)](#)

[HUMAN SEROBLOCK \(BUF070B\)](#)

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