

Datasheet: DC004

Description:	MOUSE ANTI HUMAN CD3:FITC/CD16:RPE
Specificity:	CD3/CD16
Format:	FITC/RPE
Product Type:	Dual Color Reagent
Clone:	UCHT1/ DJ130c
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: IgG2a (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 0.5ml distilled water

Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution.

Max Ex/Em

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

Buffer Solution

Phosphate buffered saline

Preservative

0.09% Sodium Azide

Stabilisers

1.0% Bovine Serum Albumin

5% Sucrose

**External Database
Links**

UniProt:

[P04234](#) [Related reagents](#)
[P09693](#) [Related reagents](#)
[P07766](#) [Related reagents](#)
[O75015](#) [Related reagents](#)
[P08637](#) [Related reagents](#)

Entrez Gene:

[915](#) CD3D [Related reagents](#)
[917](#) CD3G [Related reagents](#)
[916](#) CD3E [Related reagents](#)
[2214](#) FCGR3A [Related reagents](#)
[2215](#) FCGR3B [Related reagents](#)

Synonyms

CD16A, CD16B, FCG3, FCGR3, IGFR3, T3D, T3E, T3G

Specificity

Mouse anti Human CD3:FITC/CD16:RPE dual color reagent has been developed to allow the simultaneous enumeration of Tcells and NK cells, as well as the subset of CD3+ve, CD16+ve lymphocytes.

CD3 is a complex cell-surface glycoprotein expressed by all mature T lymphocytes. This complex comprises five different polypeptide chains, with molecular weights of ~16-28 kDa. CD16 is a ~50-65 kDa glycoprotein expressed by NK cells, some T cells and granulocytes. It exists in two forms, a transmembrane protein expressed on NK cells and a GPI-linked form expressed on granulocytes. CD16 functions as a low affinity receptor for IgG, and is also known as FcRIII.

Flow Cytometry

Use 10ul to label 100ul whole blood.

References

1. Beverley, P.C.L. and Callard, R.E. (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. Edburg, J.C. *et al.* (1989) Human Fc gamma RIII (CD16). Isoforms with distinct allelic expression, extracellular domains, and membrane linkages on polymorphonuclear and natural killer cells. [J. Immunol. 143: 1642-1649.](#)
3. Clevers, H. *et al.* (1988) The transmembrane orientation of the epsilon chain of the TcR/CD3 complex. [Eur. J. Immunol. 18: 705-710.](#)

Storage

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

6 months from date of despatch.

**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 Useful Reagents

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

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

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