

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 0.5 ml 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	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	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
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RRID	AB_321261
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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.
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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
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References	<ol style="list-style-type: none">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. <i>et al.</i> (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. <i>et al.</i> (1988) The transmembrane orientation of the epsilon chain of the TcR/CD3 complex. Eur. J. Immunol. 18: 705-710.
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Storage	Store at +4°C.
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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.

Guarantee	6 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10075 available at: 10075: https://www.bio-rad-antibodies.com/uploads/MSDS/10075.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Useful Reagents

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

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

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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