



DATA SHEET

Datasheet: MCA756BT

Description: MOUSE ANTI HUMAN CD64:Biotin

Specificity: CD64

Other names: FcRI

Format: Biotin

Product Type: Monoclonal Antibody

Clone: 10.1

Isotype: IgG1

Quantity: 25 µg

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.

	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.

Target Species Human

Species Cross Reactivity

Reacts with: Baboon, Cynomolgus monkey, Rhesus Monkey N.B.

Antibody reactivity and working conditions may vary between species.

Product Form Purified IgG conjugated to Biotin - liquid

Preparation

Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution Phosphate buffered saline

Preservative 0.09% Sodium Azide

Stabilisers 1% Bovine Serum Albumin

Approx. Protein Concentrations IgG concentration 0.1 mg/ml

Immunogen Human monocytes

External Database

Links

UniProt: P12314 FCGR1_HUMAN

Entrez Gene: 2209 FCGR1A

Synonyms FCG1, FCGR1, IGFR1

Fusion Partners

Spleen cells from immunised BALB/c mice were fused with cells of the mouse Sp2/0-Ag14 myeloma cell line

Specificity

MCA756B recognises the human CD64 cell surface glycoprotein, a 75kD molecule expressed by monocytes, interferon gamma stimulated granulocytes, myelomonocytic leukaemias and myeloid cell lines.

Flow Cytometry

Use 10ul of the suggested working dilution to label 10^6 cells in 100ul. Method sheets are available on request.

References

1. Dougherty, G. et al.(1987) The human mononuclear phagocyte high-affinity Fc receptor, Fc RI, defined by a monoclonal antibody, 10.1. Eur. J. Immunol. 17: 1453-1459.
2. Beekman, J.M. et al.(2004) Direct interaction between FcγRI (CD64) and periplakin controls receptor endocytosis and ligand binding capacity. Proc Natl Acad Sci U S A.101: 10392-7.
3. Tanaka, M. et al.(2009) Activation of Fc gamma RI on monocytes triggers differentiation into immature dendritic cells that induce autoreactive T cell responses. J Immunol. 183: 2349-55.

Further Reading 1. Yoshino, N.

et al.(2000) Upgrading of flow cytometric analysis for absolute counts, cytokines and other antigenic molecules of Cynomolgus monkeys (*Macaca fascicularis*) by using anti-human cross-reactive antibodies. Exp.Anim. 49 (2): 97-110

Storage Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. This product is photosensitive and should be protected from light.

Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Shelf Life 18 months from date of despatch.

Health And Safety Information

Material Safety Datasheet Documentation #10041 available at:

<http://www.abdserotec.com/uploads/MSDS/10041.pdf>

Related Products

Recommended Secondary Antibodies

STREPTAVIDIN (STAR119...) APC

STREPTAVIDIN (STAR3...) TRITC

STREPTAVIDIN (STAR6...) Alk. Phos.

STREPTAVIDIN (STAR152...) DyLight®800

STREPTAVIDIN (STAR5...) HRP

STREPTAVIDIN (STAR4...) RPE, RPE

STREPTAVIDIN (STAR2...) FITC

Other formats and applications

This reagent is also available in a ALEXA FLUOR® 647, FITC, Low Endotoxin, Purified, RPE, RPE-CY5 format and is useful for Immunofluorescence, Functional Assays

For research purposes only, unless otherwise specified in writing by AbD Serotec.

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