Datasheet: MCA2476F

BATCH NUMBER 149331

Description:	HAMSTER ANTI HUMAN EMR3:FITC
Specificity:	EMR3
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	3D7
Isotype:	IgG
Quantity:	0.1 mg

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 - 1/10

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

Product Form

Purified IgG - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
FITC	490	525

Preparation

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

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide

Approx. Protein Concentrations

IgG concentration 0.1 mg/ml

Immunogen	ARHO-EMR3-CD97 (EGF1) transfectants.
External Database Links	**UniProt:** Q9BY15 Related reagents **Entrez Gene:** 84658 EMR3 Related reagents
RRID	AB_872002
Fusion Partners	Spleen cells from immunised Armenian hamster were fused with cells of the mouse SP2/0 myeloma cell line.
Specificity	**Hamster anti Human EMR3 antibody, clone 3D7** recognizes human epidermal growth factor (EGF) module-containing mucin-like hormone receptor 3 (EMR3), a ~56 kDa member of the EGF-7 transmembrane (TM7) family of adhesion receptors. EMR3 is expressed at the cell surface as a heterodimer. The molecule is predominantly expressed on granulocytes, and at lower levels on mature myeloid cells, monocytes and dendritic cells. EMR3 is absent on lymphocytes, haematopoietic stem cells and myeloid progenitors. Studies suggest that the EMR3 molecule is up-regulated during late stages of neutrophil differentiation and is a marker for terminally differentiated cells. The exact functions of EMR3 and its ligands have not yet been determined.
Flow Cytometry	Use 10ul of the suggested working dilution to label 10^6 cells in 100ul.
References	1. Matmati, M. *et al.* (2007) The human EGF-TM7 receptor EMR3 is a marker for mature granulocytes. J Leukoc Biol. 81 (2): 440-8. 2. Drewniak, A. *etal.* (2009) Changes in gene expression of granulocytes during *in vivo* granulocyte colony-stimulating factor/dexamethasone mobilization for transfusion purposes. Blood. 113: 5979-98. 3. van de Geer, A. *et al.* (2017) Characterization of buffy coat-derived granulocytes for clinical use: a comparison with granulocyte colony-stimulating factor/dexamethasone-pretreated donor-derived products. Vox Sang. Jan 25. [Epub ahead of print]
Further Reading	1. Carpenter, G. & Cohen, S. (1990) Epidermal growth factor. J Biol Chem. 265 (14): 7709-12.
Storage	Store at +4°C or at -20°C if preferred. Storage in frost-free freezers is not recommended. 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	12 months from date of despatch

Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2476F 10040
Regulatory	For research purposes only

Related Products

Recommended Negative Controls

HAMSTER (ARMENIAN) IgG NEGATIVE CONTROL:FITC (MCA2356F)

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

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M367011:200529'

Printed on 18 Jan 2024