

Datasheet: MCA2476A647

Description:	HAMSTER ANTI HUMAN EMR3:Alexa Fluor® 647
Specificity:	EMR3
Format:	ALEXA FLUOR® 647
Product Type:	Monoclonal Antibody
Clone:	3D7
Isotype:	IgG
Quantity:	100 TESTS/1ml

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 conjugated to Alexa Fluor® 647 - liquid		
Max Ex/Em	Fluorophore	Excitation Max (nm)	Emission Max (nm)
	Alexa Fluor®647	650	665
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 0.05 mg/ml		
Immunogen	ARHO-EMR3-CD97 (EGF1) transfectants.		

External Database Links	UniProt: Q9BY15 Related reagents
	Entrez Gene: 84658 EMR3 Related reagents
RRID	AB_872001
Fusion Partners	Spleen cells from immunized Armenian hamster were fused with cells of the mouse SP2/0 myeloma cell line.
Specificity	<p>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.</p> <p>EMR3 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. EMR3 is up-regulated during late stages of neutrophil differentiation and is a marker for terminally differentiated cells (Matmati et al.2007).</p>
Flow Cytometry	Use 10ul of the suggested working dilution to label 10 ⁶ cells in 100ul.
References	<ol style="list-style-type: none"> 1. Drewniak, A. <i>et al.</i> (2009) Changes in gene expression of granulocytes during <i>in vivo</i> granulocyte colony-stimulating factor/dexamethasone mobilization for transfusion purposes. Blood. 113: 5979-98. 2. Gazendam, R.P. <i>et al.</i> (2016) Impaired killing of <i>Candida albicans</i>. by granulocytes mobilized for transfusion purposes: a role for granule components. Haematologica. 101 (5): 587-96. 3. van de Geer, A. <i>et al.</i> (2017) Characterization of buffy coat-derived granulocytes for clinical use: a comparison with granulocyte colony-stimulating factor/dexamethasone-pretreated donor-derived products. Vox Sang. 112 (2): 173-82. 4. Hansen, M. <i>et al.</i> (2018) Efficient production of erythroid, megakaryocytic and myeloid cells, using single cell-derived iPSC colony differentiation. Stem Cell Res. 29: 232-44.
Further Reading	<ol style="list-style-type: none"> 1. Carpenter, G. & Cohen, S. (1990) Epidermal growth factor. J Biol Chem. 265 (14): 7709-12.
Storage	<p>This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. This product is photosensitive and should be protected from light.</p>
Guarantee	12 months from date of despatch

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Health And Safety Information	Material Safety Datasheet documentation #10041 available at: https://www.bio-rad-antibodies.com/SDS/MCA2476A647 10041
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Regulatory	For research purposes only
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Related Products

Recommended Negative Controls

[HAMSTER \(ARMENIAN\) IgG NEGATIVE CONTROL:Alexa Fluor® 647 \(MCA2356A647\)](#)

Recommended Useful Reagents

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

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

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets
'M385403:210513'

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