

Datasheet: MCA4705F

Description:	HAMSTER ANTI MOUSE CD103:FITC
Specificity:	CD103
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	2E7
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	▪			1/5

Where this product 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 product for use in their own system using appropriate negative/positive controls.

Target Species	Mouse						
Product Form	Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid						
Max Ex/Em	<table border="1"> <thead> <tr> <th>Fluorophore</th> <th>Excitation Max (nm)</th> <th>Emission Max (nm)</th> </tr> </thead> <tbody> <tr> <td>FITC</td> <td>490</td> <td>525</td> </tr> </tbody> </table>	Fluorophore	Excitation Max (nm)	Emission Max (nm)	FITC	490	525
Fluorophore	Excitation Max (nm)	Emission Max (nm)					
FITC	490	525					
Preparation	Purified IgG prepared by affinity chromatography						
Buffer Solution	Phosphate buffered saline						
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)						
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml						
Immunogen	Mouse intestinal intraepithelial lymphocytes						

**External Database
Links**

UniProt:

[Q60677](#) [Related reagents](#)

Entrez Gene:

[16407](#) Itgae [Related reagents](#)

Specificity

Hamster anti Mouse CD103 antibody, clone 2E7 recognizes mouse CD103, otherwise known as integrin alpha-E. CD103 binds Integrin beta 7 to form the heterodimeric integrin molecule $\alpha E\beta 7$. This complex is sometimes referred to as CD103, though strictly speaking CD103 only refers to the alpha chain. The beta 7 subunit can also interact with other integrin alpha chains. The $\alpha E\beta 7$ complex is a receptor for E-cadherin. It mediates adhesion of intra-epithelial T-lymphocytes to epithelial cell monolayers. CD103 is expressed on intestinal intraepithelial lymphocytes and is highly expressed on regulatory T cells. Hamster anti Mouse CD103 antibody, clone 2E7 is expected to also recognize the intact $\alpha E\beta 7$ complex.

Flow Cytometry

Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul

References

1. Lefrançois, L. *et al.* (1994) Developmental expression of the alpha IEL beta 7 integrin on T cell receptor gamma delta and T cell receptor alpha beta T cells. [Eur J Immunol. 24: 635- 640](#)

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.

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/MCA4705F>
10040

Regulatory

For research purposes only

Related Products

Recommended Negative Controls

[HAMSTER \(ARMENIAN\) IgG NEGATIVE CONTROL:FITC \(MCA2356F\)](#)

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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

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