



## Datasheet: MCA4705GA

<b>Description:</b>	HAMSTER ANTI MOUSE CD103
<b>Specificity:</b>	CD103
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	2E7
<b>Isotype:</b>	IgG
<b>Quantity:</b>	0.1 mg

## Product Details

**RRID** AB\_2249322

**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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry	▪			1/10 - 1/20
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA			▪	
Immunoprecipitation	▪			
Western Blotting			▪	
Immunofluorescence	▪			

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 - liquid

**Preparation** Purified IgG prepared by affinity chromatography

**Buffer Solution** Phosphate buffered saline

**Preservative Stabilisers** 0.09% Sodium Azide (NaN<sub>3</sub>)

**Approx. Protein Concentrations** IgG concentration 0.5mg/ml

**Immunogen** Mouse intestinal intraepithelial lymphocytes

**External Database  
Links**

**UniProt:**

[Q60677](#)   [Related reagents](#)

**Entrez Gene:**

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

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**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.

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**Flow Cytometry**

Use 10ul of the suggested working dilution to label  $1 \times 10^6$  cells in 100ul.

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**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](#)

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

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**Guarantee**

18 months from date of despatch.

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10040 available at:  
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Hamster IgG (STAR104...) [DyLight@800](#), [FITC](#)

Goat Anti Hamster IgG (STAR79...) [Biotin](#), [FITC](#), [HRP](#)

### Recommended Negative Controls

[HAMSTER \(ARMENIAN\) IgG NEGATIVE CONTROL \(MCA2356\)](#)

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**Printed on 11 Oct 2019**