

Datasheet: MCA4705GA

BATCH NUMBER 180412

Description:	HAMSTER ANTI MOUSE CD103
Specificity:	CD103
Format:	Purified
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	▪			1/10 - 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 ₃)
Approx. Protein	IgG concentration 0.5mg/ml

Concentrations

Immunogen	Mouse intestinal intraepithelial lymphocytes
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External Database Links

UniProt:

[Q60677](#)

[Related reagents](#)

Entrez Gene:

[16407](#)

Itgae

[Related reagents](#)

RRID

AB_2249322

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 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.

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/MCA4705GA>
10040

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Hamster IgG (STAR104...) [DyLight®550](#), [DyLight®650](#), [DyLight®800](#), [FITC](#)

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

Recommended Negative Controls

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

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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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