

# Monoclonal Antibody CD103-Biotin

PN IM0629 – Freeze-dried – 0.2 mg – Clone 2G5

For Research Use Only. Not for use in diagnostic procedures.

## SPECIFICITY

The CD103 antigen was originally described as the human mucosal antigen 1 (HML-1) and was subsequently proved to be the integrin  $\alpha E$  subunit. CD103 is composed of a 150 kDa chain associated with a 25 kDa chain by a disulfide bond. It is expressed as a heterodimer in association with the integrin  $\beta 7$  chain. CD103 is expressed on mucosa-associated T lymphocytes and activated cells. This human intra epithelial lymphocyte marker is expressed in very few resting peripheral blood lymphocytes.  $\alpha E$ - $\beta 7$  binds to E-cadherin on epithelial cells.

The 2G5 monoclonal antibody has been assigned to the CD103 cluster of differentiation at the fifth International Workshop on Human Leukocyte Differentiation Antigens held in Boston, USA, in 1993(1).

## REAGENT

Monoclonal Antibody CD103-Biotin  
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<b>Clone</b>	2G5
<b>Isotype</b>	IgG2a
<b>Immunogen</b>	Human intestinal lymphocyte (HML1)
<b>Hybridoma</b>	NS1 Mouse myeloma x Balb/c spleen cells
<b>Species</b>	Mouse
<b>Source</b>	Ascites fluid
<b>Purification</b>	Protein A affinity chromatography

## REAGENT CONTENTS

1 mg/mL bovine serum albumin in phosphate-buffered saline.

## STATEMENT OF WARNINGS

1. Specimens, samples and all material coming in contact with them should be handled as if capable of transmitting infection and disposed of with proper precautions.
2. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
3. Do not use reagent beyond the expiration date on the vial label.
4. Avoid microbial contamination of reagent or erroneous results may occur.
5. Use good laboratory practices when handling this reagent.

## STORAGE CONDITIONS AND STABILITY

This freeze-dried form of this reagent is stable up to the expiration date on the vial label when stored at 2 – 8°C.

The reconstituted form may be used immediately after reconstitution.

## REAGENT PREPARATION

Reconstitute with 1 mL of distilled water. No preservative has been added.

## CONJUGATION

The purified Ig is conjugated to biotin. Revelation procedure requires streptavidin conjugated with a probe as an additional step after binding of the primary antibody.

## APPLICATIONS

Studies of CD103 positive cells by flow cytometry.

For each application, it is recommended to establish the right range of antibody dilutions to be used for the experiment.

## SELECTED RESEARCH REFERENCES

1. Cepek, K., Wong, D., Brenner, M., Springer, T., "CD103 cluster report" 1995, Leucocyte Typing V, White Cell Differentiation Antigens, Schlossman S, et al., Eds., Oxford University Press, 1666.

## PRODUCT AVAILABILITY

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For additional information in the USA, call 800-526-7694.

Outside the USA, contact your local Beckman Coulter representative.

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