SPECIFICITY
The CD103 antigen is a membrane surface molecule known as the human mucosal lymphocyte antigen 1 (HML-1) or the integrin αE chain. CD103 associates with the beta subunit of the αEβ7 heterodimer integrin which includes the 150-kDa αE chain and the 105-kDa β7 chain, as measured under reducing conditions (1). HML-1 antigen is therefore a member of the integrin family of leucocyte adhesion molecules, belonging to the superfamily of heterodimers containing the β7 subunit (2, 3).

The 2G5 monoclonal antibody (mAb) stains all the various subsets of human intraepithelial lymphocytes (IEL) as well as subpopulations of lamina propria T cells and mesenteric lymphoblasts. It reacts also with some lymphocytes in other mucosae (2, 3). The 2G5 mAb has been assigned to the CD103 cluster of differentiation during the 5th International Workshop on Human Leucocyte Differentiation Antigens, in Boston, USA, in 1993 (WS Code: A005) (1).

REAGENT CONTENTS
This antibody is provided in phosphate-buffered saline, containing 0.1% sodium azide and 2 mg/mL bovine serum albumin.

STATEMENTS OF WARNING
1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.
2. Specimens, samples and all material coming in contact with them should be considered potentially infectious and disposed of with proper precautions.
3. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
4. Do not use antibody beyond the expiration date on the label.
5. Do not expose reagents to strong light during storage or incubation.
6. Avoid microbial contamination of reagents or incorrect results might occur.
7. Use good laboratory practices when handling this reagent.

STORAGE AND HANDLING CONDITIONS AND STABILITY
This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze. No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

SELECTED RESEARCH REFERENCES

TRADEMARKS
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