

# Technical Data Sheet

## InVivoMAb anti-mouse CD103



**Attention:** Use of this product constitutes an agreement to Bio X Cell's Terms and Conditions which are included with this product in print and can also be found at <https://bioxcell.com/terms-and-conditions>.

### Lot Specific Information

Lot Number: Lot Specific\*  
Volume: Lot Specific\*  
Concentration: Lot Specific\* (generally 4 to 11 mg/ml) \*  
Total Protein: Lot Specific\*

\*This information will be noted on the certificate of analysis that ships with this product.

### Product Information

Catalog Number: BE0026  
Clone: M290  
Isotype: Rat IgG2a,  $\kappa$   
Recommended Isotype Control(s): InVivoMAb rat IgG2a isotype control, anti-trinitrophenol  
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer  
Immunogen: Mouse intestinal epithelial cells  
Reported Applications: *in vivo* CD103 neutralization  
Immunofluorescence  
Flow cytometry  
Formulation: PBS, pH 7.0  
Contains no stabilizers or preservatives  
Endotoxin:  $\leq 1$  EU/mg ( $\leq 0.001$  EU/ $\mu$ g)  
Determined by LAL gel clotting assay  
Purity:  $\geq 95\%$   
Determined by SDS-PAGE  
Sterility: 0.2  $\mu$ m filtered  
Production: Purified from cell culture supernatant in an animal-free facility  
Purification: Protein G  
RRID: [AB\\_1107570](https://rrid.info/AB_1107570)  
Molecular Weight: 150 kDa

### Description

The M290 monoclonal antibody reacts with mouse CD103 also known as integrin  $\alpha$ E (ITGAE). CD103 is an integrin protein that binds integrin beta 7 to form the complete heterodimeric integrin molecule  $\alpha$ E $\beta$ 7. CD103 is expressed widely on intraepithelial lymphocyte (IEL) T cells (both  $\alpha\beta$  T cells and  $\gamma\delta$  T cells) and on some peripheral regulatory T cells. It has also been reported on lamina propria T cells. A subset of dendritic cells in the gut mucosa and in mesenteric lymph nodes also expresses CD103. The main ligand for CD103 is E-cadherin, an adhesion molecule expressed by epithelial cells. CD103 is thought to facilitate the interactions of T cells with epithelial cells during T cell maturation and effector functions. The M290 antibody is reported to neutralize CD103 *in vivo*.

### Storage

Store at the stock concentration at 4°C . **Do not freeze.**

It is not uncommon for a floccule or precipitate to appear during storage. The floccule is typically buffer salts precipitating out of solution or a small bit of protein aggregation. For information on how to remove floccules or precipitates see our FAQ's at <https://bioxcell.com/faqs>.

### Protocol Information

Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate

dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

## Application References

For a complete list of references, visit [https://bioxcell.com/be0026?bxcs=9k1b3a#tab\\_references](https://bioxcell.com/be0026?bxcs=9k1b3a#tab_references) or scan the QR code below.



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