

# 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:	<i>in vivo</i> CD103 neutralization Immunofluorescence Flow cytometry
Formulation:	PBS, pH 7.0 Contains no stabilizers or preservatives
Endotoxin:	<2EU/mg (<0.002EU/ $\mu$ g) Determined by LAL gel clotting assay
Purity:	>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:	<a href="https://www.ebi.ac.uk/rrd/AB_1107570">AB_1107570</a>
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/catalogsearch/result/?q=BE0026#tab\\_references](https://bioxcell.com/catalogsearch/result/?q=BE0026#tab_references) or scan the QR code below.



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*Not for resale.*

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