

InVivoMAb anti-mouse CD103

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, κ
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 <i>in vivo</i> CD103 neutralization
Reported Applications:	Immunofluorescence Flow cytometry
Formulation:	PBS, pH 7.0 Contains no stabilizers or preservatives
Endotoxin:	<2EU/mg (<0.002EU/ μ g) Determined by LAL gel clotting assay
Purity:	>95% Determined by SDS-PAGE
Sterility:	0.2 μ M filtered
Production:	Purified from tissue culture supernatant in an animal free facility
Purification:	Protein G
RRID:	AB_1107570
Molecular Weight:	150 kDa

Description

The M290 monoclonal antibody reacts with mouse CD103 also known as integrin α E (ITGAE). CD103 is an integrin protein that binds integrin beta 7 to form the complete heterodimeric integrin molecule α E β 7. CD103 is expressed widely on intraepithelial lymphocyte (IEL) T cells (both α β T cells and γ δ 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*.

Shelf-life and Storage

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

All Bio X Cell antibodies have a guaranteed shelf-life of one year from the date of customer receipt when stored as recommended. 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 bxcell.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://bxcell.com/product/m-cd103/#references> or scan the QR code below.

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