Technical Data Sheet

InVivoMAb anti-mouse/human Integrin β7

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:	**BE0062**
Clone:	**FIB504**
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:	TK1 cells
Reported Applications:	*in vivo* blocking of integrin β7 Immunoprecipitation Western blot Flow cytometry
Formulation:	PBS, pH 7.0 Contains no stabilizers or preservatives
Endotoxin:	≤1EU/mg (≤0.001EU/μg) Determined by LAL gel clotting assay
Purity:	≥95% Determined by SDS-PAGE
Sterility:	0.2 μm filtered
Production:	Purified from cell culture supernatant in an animal-free facility
Purification:	Protein G
RRID:	AB_1107715
Molecular Weight:	150 kDa

Description

The FIB504 monoclonal antibody reacts with human and mouse Integrin beta 7 which is a 130 kDa glycoprotein belonging to the Ig superfamily. Integrin β7 associates with integrin α4 (CD49d) to form integrin α4β7 also known as LPAM-1 as well as integrin αE (CD103) to form integrin αEβ7. Integrin α4β7 signals when bound to its ligands VCAM-1 (CD106), MAdCAM-1 and fibronectin, while integrin αEβ7 binds to E-cadherin (CD324). Integrin α4β7 is expressed by peripheral lymphocytes, small subsets of thymocytes, and bone marrow progenitors while integrin αEβ7 is expressed on intestinal intraepithelial lymphocytes, T regulatory cells, and a subset of CD8+ T cells in the lamina propria and lymph nodes. Integrin β7 plays roles in the adhesion of immune cells to endothelial cells thereby mediating cell migration and homing during an inflammatory response. The FIB504 antibody has been shown to have blocking activity.

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/be0062?bxcs=9k1b3a#tab_references or scan the QR code below.

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