Technical Data Sheet

InVivoMAb anti-mouse FAP

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:	**BE0374**
Clone:	**73.3**
Isotype:	Mouse IgG1, κ
Recommended Isotype Control(s):	InVivoMAb mouse IgG1 isotype control, unknown specificity
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	Mouse FAP-expressing 3T3 cells
Reported Applications:	Chimeric antigen receptor construction Flow cytometry Immunoprecipitation Immunoblot
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 filtration
Purification:	Protein G
RRID:	AB_2927511
Molecular Weight:	150 kDa

Description

The 73.3 monoclonal antibody reacts with mouse fibroblast activation protein (FAP), a cell-surface serine protease that acts on various hormones and extracellular matrix components. FAP is expressed during embryonic development, in tissues of healing wounds, and in chronic inflammatory and fibrotic conditions. FAP expression is highly upregulated in cancer-associated fibroblasts in epithelial tumors. Cancer-associated fibroblasts overexpression of FAP promotes tumor development and metastasis by influencing extracellular matrix remodeling, intracellular signaling, angiogenesis, epithelial-to-mesenchymal transition, and immunosuppression. The scFv of the 73.3 antibody has been used to construct 73.3-FAP-CAR T cells specific for FAP. Adoptively transferred 73.3-FAP-CAR T cells have been shown to inhibit the growth of multiple syngeneic mouse tumor models. Note: The 73.3 monoclonal antibody does not cross-react with human FAP (refer to Wang et. al., 2014 for more details). Bio X Cell is pleased to also offer RecombiMAb anti-mouse FAP clone 73.3-CP057. The 73.3-CP057 monoclonal antibody is a recombinant, chimeric version of the original 73.3 antibody. The variable domain sequences are identical but the constant region sequences have been switched from Mouse IgG1, κ to Mouse IgG2a, κ. The highly controlled sequence and lack of genetic drift in recombinant antibodies provide more reliable and reproducible results over hybridoma derived antibodies.

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/be0374?bxcs=9k1b3a#tab_references or scan the QR code below.

Bio X Cell, LLC
https://bioxcell.com
+1-866-787-3444
customerservice@bioxcell.com

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