

# Technical Data Sheet

InVivoMAb anti-mouse IL-27 p28



**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: BE0326  
Clone: MM27.7B1  
Isotype: Mouse IgG2a,  $\kappa$   
Recommended Isotype Control(s): InVivoMAb mouse IgG2a isotype control, unknown specificity  
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer  
Immunogen: Mouse IL-27  
Reported Applications: *in vivo* IL-27 p28 neutralization  
*in vitro* IL-27 p28 neutralization  
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 filtration  
Production: Purified from cell culture supernatant in an animal-free facility  
Purification: Protein A  
RRID: [AB\\_2819053](https://identifiers.org/AB_2819053)  
Molecular Weight: 150 kDa

## Description

The MM27.7B1 monoclonal antibody reacts with the p28 subunit of mouse IL-27, a member of the IL-6/IL-12 cytokine family. IL-27 is a heterodimeric cytokine composed the EB13 (Epstein-Barr virus induced gene 3) protein and the p28 subunit, also known as IL-30. Myeloid cells including macrophages, inflammatory monocytes, microglia, and dendritic cells are the dominant cellular sources of IL-27. These cells secrete IL-27 in response to TLR ligands and inflammatory cytokines. IL-27 p28 signals through IL-27 receptors (IL-27R) which are highly expressed by NK cells and activated T cells and to a lesser extent on B cells, naïve T cells, and others. IL-27 signaling has been shown to have both pro-inflammatory and anti-inflammatory effects. Signaling through IL-27R promotes Th1 polarization and IFN $\gamma$  production but also suppresses the differentiation and proliferation of Th2 and Th17 cells and induces the expression of IL-10. The MM27.7B1 clone has been shown to neutralize the bioactivity of mouse IL-27 *in vivo* and *in vitro* and reported to also bind and inhibit human IL-27.

## 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

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.

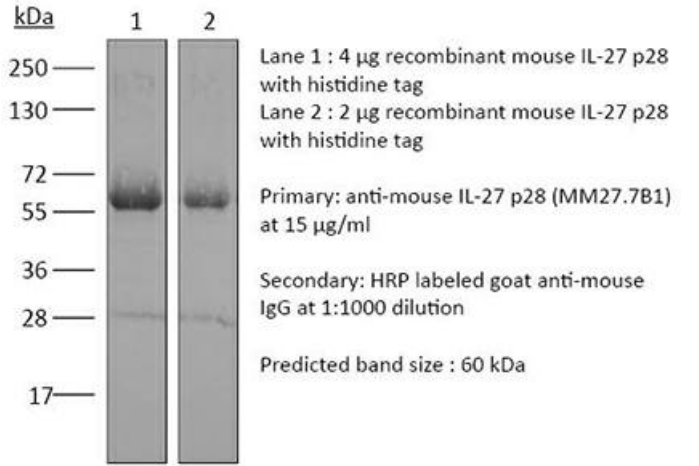
Application References

For a complete list of references, visit [https://bioxcell.com/catalogsearch/result?q=BE0326#tab\\_references](https://bioxcell.com/catalogsearch/result?q=BE0326#tab_references) or scan the QR code below.



Binding Validation

Validation data shown below confirms that this clone binds to its target antigen. For lot specific binding validation data, e-mail [technicalservice@bioxcell.com](mailto:technicalservice@bioxcell.com).



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