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, κ
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:	≤1EU/mg (≤0.001EU/μg) Determined by LAL gel clotting assay
Purity:	≥95% Determined by SDS-PAGE
Sterility:	0.2 μm filtration
Production:	Purified from cell culture supernatant in an animal-free facility
Purification:	Protein A
RRID:	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 EBI3 (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 IFNγ 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 https://bioxcell.com/faqs.

Protocol Information

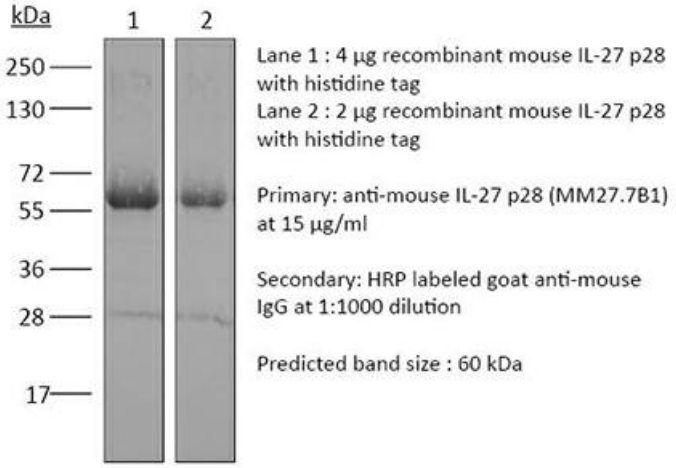
Since applications vary, each investigator should use the application references as a guide to help estimate the appropriate dose or concentration. The dose or concentration can be further optimized experimentally in a dose response or titration experiment.

Application References

For a complete list of references, visit https://bioxcell.com/be0326?bxcs=9k1b3a#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.



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