Technical Data Sheet

InVivoMAb anti-human IL-10

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:	**BE0441**
Clone:	**JES3-19F1**
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:	Epstein-Barr virus IL-10 (vIL-10)
Reported Applications:	*in vivo* neutralization of IL-10 *in vitro* neutralization of IL-10 Immunohistochemistry (frozen) Immunohistochemistry (paraffin) Functional assays Flow cytometry Western blot ELISA
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:	
Molecular Weight:	150 kDa

Description

The JES3-19F1 monoclonal antibody reacts with human interleukin 10 (hIL-10) and its viral homolog, Epstein-Barr virus (EBV) IL-10 (ebvIL-10 or vIL-10). IL-10 is synthesized by a variety of cells, including T-cells, macrophages, and mast cells. IL-10 is a pleiotropic cytokine essential to the regulation of inflammatory and immune responses, e.g., suppression of proinflammatory cytokine production by monocytes and neutrophils, and macrophage as well as T cell effector functions. IL-10 interacts with its receptor leading to a JAK1 and STAT2/STAT3-mediated anti-inflammatory response. IL-10 targets macrophages and monocytes, thereby inhibiting their release of pro-inflammatory cytokines, including GM-CSF, G-CSF, IL-1 alpha, IL-1 beta, IL-6, IL-8, and TNF-alpha. Several in vitro studies have shown that the JES3-19F1 antibody neutralizes endogenous and recombinant human IL-10 and vIL-10. Notably, this antibody does not detect murine IL-10. The JES3-19F1 antibody is useful as a capture or coating antibody in ELISA applications, wherein it has been documented to be compatible with the biotinylated anti-human IL10 clone JES3-12G8 detection antibody. The JES3-12G8 antibody has been shown to be sufficient to reduce bacterial load in Mycobacterium avium infected hu10Tg/mulL-10−/− mice.

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/be0441?bxcs=9k1b3a#tab_references or scan the QR code below.

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

Conditions: For research use only. Not for use in diagnostic or therapeutic procedures.
Not for resale.
Bio X Cell, Bio X Cell logo, and all other trademarks are the property of Bio X Cell, LLC © 2025 Bio X Cell, LLC