

# 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,  $\kappa$   
**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:** <2EU/mg (<0.002EU/ $\mu$ g)  
Determined by LAL gel clotting assay  
**Purity:** >95%  
Determined by SDS-PAGE  
**Sterility:** 0.2  $\mu$ m 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/catalogsearch/result/?q=BE0441#tab\\_references](https://bioxcell.com/catalogsearch/result/?q=BE0441#tab_references) or scan the QR code below.



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*Not for resale.*

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