

Technical Data Sheet

InVivoMAb anti-mouse IFN- α



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: BE0488
Clone: TIF-3C5
Isotype: Armenian hamster IgG
Recommended Isotype Control(s): InVivoMAb Armenian hamster IgG isotype control, anti-S. japonicum glutathione S-transferase
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer
Immunogen: Recombinant murine IFN- α 5
Reported Applications: *in vivo* neutralization of IFN- α
in vitro neutralization of IFN- α
ELISA
Formulation: PBS, pH 7.0
Contains no stabilizers or preservatives
Endotoxin: ≤ 1 EU/mg (≤ 0.001 EU/ μ g)
Determined by LAL assay
Purity: $\geq 95\%$
Determined by SDS-PAGE
Sterility: 0.2 μ m filtration
Production: Purified from cell culture supernatant in an animal-free facility
Purification: Protein G
RRID:
Molecular Weight: 150 kDa

Description

The TIF-3C5 monoclonal antibody reacts with mouse interferon alpha (IFN- α), a pleiotropic cytokine belonging to the type I IFN family. TIF-3C5 is often regarded as a pan-IFN- α antibody because it is shown to recognize multiple subtypes of IFN- α , namely IFN- α A, IFN- α 1, IFN- α 4, IFN- α 5, IFN- α 11, and IFN- α 13. This antibody does not cross-react with mouse IFN- β , mouse IFN- γ , and human IFN- α A/D. The type I IFNs bind a ubiquitously expressed heterodimeric type I IFN receptor (IFNAR), which consists of the α -chain (IFNAR1) and the β -chain (IFNAR2) subunits. The differing binding affinity of the IFN- α subtypes with IFNAR subunits correlates with differential regulation of the downstream signaling molecules, such as STATs and MAPKs. IFN- α is naturally produced during viral infections, and the major source of this cytokine is plasmacytoid dendritic cells (pDCs), also called "natural interferon-producing cells" (NIPCs). IFN- α is also produced by macrophages, monocytes, B-cells, T-cells, and, to a lesser extent, fibroblasts and endothelial cells in pathophysiological conditions such as tumors and pathogenic exposure. IFN- α 's role in both the pathology and biotherapeutics of viral infections and cancer is well established, and it also acts as a key immunopathogenic driver of autoimmune diseases, such as systemic lupus erythematosus (SLE). IFN- α 's anti-tumor properties include direct cytotoxic killing of tumor cells and stimulating innate or adaptive immunity.

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/be0488?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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