Technical Data Sheet

RecombiMAb anti-mouse TNFa



<u>Attention</u>: 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: CP054

 Clone:
 XT3.11-CP054

 Isotype:
 Mouse IgG1, κ

Recommended Isotype Control(s): InVivoPlus mouse IgG1 isotype control, unknown specificity

Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer

 Immunogen:
 Recombinant mouse TNFα

 Reported Applications:
 in vivo TNFα neutralization*

 in vita TNFα poutralization*

*in vitr*ο TNFα neutralization*

*Reported for the original rat lgG1 XT3.11 antibody

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 HEK293 cell supernatant in an animal-free facility

Purification: Protein G
Aggregation: <5%

Determined by SEC

RRID:

Molecular Weight: 150 kDa

Murine Pathogen Test Results

Mouse Norovirus: Negative, Mouse Parvovirus: Negative, Mouse Minute Virus: Negative, Mouse Hepatitis Virus: Negative, Reovirus Screen: Negative, Lymphocytic Choriomeningitis virus: Negative, Lactate Dehydrogenase-Elevating Virus: Negative, Mouse Rotavirus: Negative, Theiler's Murine Encephalomyelitis: Negative, Ectromelia/Mousepox Virus: Negative, Hantavirus: Negative, Polyoma Virus: Negative, Mouse Adenovirus: Negative, Sendai Virus: Negative, Mycoplasma Pulmonis: Negative, Pneumonia Virus of Mice: Negative, Mouse Cytomegalovirus: Negative, K Virus: Negative

Description

The XT3.11-CP054 monoclonal antibody is a chimeric version of the original XT3.11 antibody. The variable domain sequences are identical to the original XT3.11 but the constant region sequences have been switched from rat $\lg G1$ to mouse $\lg G1$. The XT3.11-CP054 monoclonal antibody reacts with mouse TNF α (tumor necrosis factor-alpha) a multifunctional proinflammatory cytokine. TNF α exists as a soluble 17 kDa monomer, which forms homotrimers in circulation or as a 26 kDa membrane-bound form. TNF α belongs to the TNF superfamily of cytokines and signals through its two

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receptors, TNFR1 and TNFR2 which can be activated by both the soluble trimeric and membrane-bound and forms of TNF α . TNF α is primarily produced by macrophages in response to foreign antigens such as bacteria (lipopolysaccharides), viruses, and parasites as well as mitogens and other cytokines but can also be expressed by monocytes, neutrophils, NK cells, CD4 T cells and some specialized dendritic cells. TNF α is known to play key roles in a wide spectrum of biological processes including immunoregulation, cell proliferation, differentiation, apoptosis, antitumor activity, inflammation, anorexia, cachexia, septic shock, hematopoiesis, and viral replication. TNF α dysregulation has been implicated in a variety of diseases, including autoimmune diseases, insulin resistance, and cancer. Mouse and human TNF α share 79% amino acid sequence identity however, mouse TNF α is glycosylated while human TNF α is not. TNF α knockout animals display defects in response to bacterial infection, characterized by defects in forming organized follicular dendritic cell networks and germinal centers with a lack of primary B cell follicles.

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/fags.

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/cp054?bxcs=9k1b3a#tab_references or scan the QR code below.



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