

# Technical Data Sheet

InVivoPlus anti-mouse/human/rat/monkey/hamster/canine/bovine  
TGF- $\beta$



**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: **BP0057**  
Clone: **1D11.16.8**  
Isotype: Mouse IgG1,  $\kappa$   
Recommended Isotype Control(s): InVivoPlus mouse IgG1 isotype control, unknown specificity  
Recommended Dilution Buffer: InVivoPure pH 7.0 Dilution Buffer  
Immunogen: Bovine TGF $\beta$  isoform 2  
Reported Applications: *in vivo* TGF $\beta$  neutralization  
*in vitro* TGF $\beta$  neutralization  
Western blot  
Formulation: PBS, pH 7.0  
Contains no stabilizers or preservatives  
Endotoxin: <1EU/mg (<0.001EU/ $\mu$ g)  
Determined by LAL gel clotting assay  
Purity: >95%  
Determined by SDS-PAGE  
Sterility: 0.2  $\mu$ m filtration  
Production: Purified from cell culture supernatant in an animal-free facility  
Purification: Protein G  
Aggregation: <5%  
Determined by SEC  
RRID: [AB\\_1107757](https://abnova.com/AB_1107757)  
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 1D11.16.8 monoclonal antibody reacts with mouse, human, rat, monkey, hamster, canine and bovine TGF- $\beta$  (transforming growth factor beta) isoforms 1, 2 and 3. TGF- $\beta$  is a multifunctional cytokine that regulates the proliferation of epithelial cells, endothelial cells, fibroblasts, neurons, lymphoid cells including T lymphocytes and NK cells, and other hematopoietic cell types. TGF- $\beta$  also regulates the activities of activated macrophages and the development of regulatory T cells. Additionally, TGF- $\beta$  plays roles in immune function, tissue remodeling and wound repair. TGF- $\beta$  exists as five highly

similar isoforms (TGF- $\beta$  1-5) with homologies of 70-80%. TGF- $\beta$ 1 is synthesized by the enzymatic cleavage of a long precursor TGF- $\beta$ 1 polypeptide encoded by the TGFB1 gene which yields the mature protein and the Latency Associated Peptide (LAP). The LAP and mature TGF- $\beta$ 1 non-covalently associate during secretion. TGF- $\beta$  is ubiquitously expressed by many cell types including macrophages and platelets which express high levels of TGF- $\beta$ . TGF- $\beta$  signaling has been shown to play roles in cancer, autoimmune diseases, asthma, heart disease, and diabetes. Its importance is illustrated by TGF- $\beta$  knockout mice which show defects in hematopoiesis and endothelial differentiation, and die of overwhelming inflammation. The 1D11.16.8 monoclonal antibody is a neutralizing antibody.

## 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

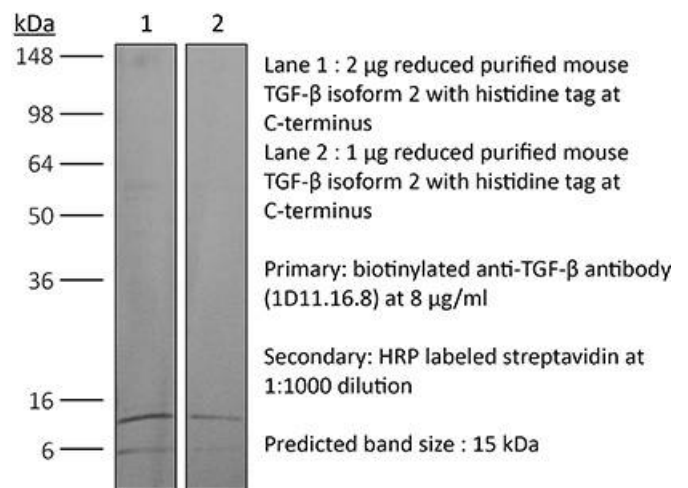
[https://bioxcell.com/bp0057?bxcs=9k1b3a#tab\\_references](https://bioxcell.com/bp0057?bxcs=9k1b3a#tab_references)

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](mailto:technicalservice@bioxcell.com).



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*Not for resale.*

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