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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, κ
Recommended Isotype Control(s):	InVivoPlus mouse IgG1 isotype control, unknown specificity
Recommended Dilution Buffer:	InVivoPure pH 7.0 Dilution Buffer
Immunogen:	Bovine TGF β isoform 2 <i>in vivo</i> TGF β neutralization <i>in vitro</i> TGF β neutralization Western blot
Reported Applications:	
Formulation:	PBS, pH 7.0 Contains no stabilizers or preservatives
Endotoxin:	<1EU/mg (<0.001EU/ μ g) Determined by LAL gel clotting assay
Purity:	>95% Determined by SDS-PAGE
Sterility:	0.2 μ M filtered
Production:	Purified from tissue culture supernatant in an animal free facility
Purification:	Protein G
Aggregation:	<5% Determined by DLS
RRID:	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- β (transforming growth factor beta) isoforms 1, 2 and 3. TGF- β 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- β also regulates the activities of activated macrophages and the development of regulatory T cells. Additionally, TGF- β plays roles in immune function, tissue remodeling and wound repair. TGF- β exists as five highly similar isoforms (TGF- β 1-5) with homologies of 70-80%. TGF- β 1 is synthesized by the enzymatic cleavage of a long precursor TGF- β 1 polypeptide encoded by the *TGF β 1* gene which yields the mature protein and the Latency Associated Peptide (LAP). The LAP and mature TGF- β 1 non-covalently associate during secretion. TGF- β is ubiquitously expressed by many cell types including macrophages and platelets which express high levels of TGF- β . TGF- β signaling has been shown to play roles in cancer, autoimmune diseases, asthma, heart disease, and diabetes. Its importance is illustrated by TGF- β 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.

Shelf-life and Storage

Store at the stock concentration at 4°C. **Do not freeze.**

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All Bio X Cell antibodies have a guaranteed shelf-life of one year from the date of customer receipt when stored as recommended. 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 bxc.com/faq.

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://bxc.com/product/invivoplus-anti-mh-tgf-beta/#references> or scan the QR code below.



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