

Datasheet: MCA797

BATCH NUMBER 160671

Description:	MOUSE ANTI HUMAN TGF BETA
Specificity:	TGF BETA
Other names:	TRANSFORMING GROWTH FACTOR BETA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	TB21
Isotype:	IgG1
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry (1)	▪			
Immunohistology - Frozen	▪			
Immunohistology - Paraffin (2)	▪			
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

(1) **Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code [BUF09](#)) for this purpose.**

(2) **Mouse anti Human TGF β antibody, clone TB21 has been used successfully on FFPE tissues without pretreatment e.g. [Bob et al.](#) and [Booth et al.](#). Others have used either [citrate pH6.0](#), [EDTA pH8.0](#) or [pepsin](#) mediated antigen retrieval.**

Target Species	Human
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Species Cross Reactivity	<p>Reacts with: Rat, Sheep, Mustelid, Mink, Rabbit, Mouse</p> <p>N.B. Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or</p>
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personal communications from the originators. Please refer to references indicated for further information.

Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Human Transforming Growth Factor Beta 1 from platelets.
External Database Links	UniProt: P01137 Related reagents Entrez Gene: 7040 TGFB1 Related reagents
Synonyms	TGFB
RRID	AB_2201912
Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the SP2/0-Ag 14 mouse myeloma cell line.
Specificity	Mouse anti Human TGF beta antibody, clone TB21 recognizes both human platelet-derived and recombinant TGF-beta1 in enzyme-linked immunosorbent assay (ELISA). Mouse anti Human TGF beta antibody, clone TB21 demonstrates neutralising activity against TGF-beta1 in cell proliferation assays. Mouse anti Human TGF beta antibody, clone TB21 has been demonstrated to react with dimeric (~25 kDa) or monomeric (~12.5 kDa) molecules of natural TGF-beta1 under non-reducing and reducing conditions respectively.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul
Histology Positive Control Tissue	Human Breast Carcinoma
References	1. Bob, F. <i>et al.</i> (2014) Immunohistochemical study of tubular epithelial cells and vascular endothelial cells in glomerulonephritis. Ren Fail. 36: 1208-14. 2. Lehr, E.J. <i>et al.</i> (2010) Decellularization reduces immunogenicity of sheep pulmonary artery vascular patches. J Thorac Cardiovasc Surg. 141: 1056-62. 3. Westermann, D. <i>et al.</i> (2011) Cardiac inflammation contributes to changes in the

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Storage This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 6 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA797>
10040

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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|---|----------------------|
| Rabbit Anti Mouse IgG (STAR12...) | RPE |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | HRP |
| Goat Anti Mouse IgG (STAR76...) | RPE |
| Rabbit Anti Mouse IgG (STAR13...) | HRP |
| Goat Anti Mouse IgG (STAR70...) | FITC |

Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),
[FITC](#), [HRP](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

Goat Anti Mouse IgG (STAR77...) [HRP](#)

Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: antibody_sales_us@bio-rad.com	Worldwide	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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