

Datasheet: MCA797

**BATCH NUMBER 157850**

<b>Description:</b>	MOUSE ANTI HUMAN TGF BETA
<b>Specificity:</b>	TGF BETA
<b>Other names:</b>	TRANSFORMING GROWTH FACTOR BETA
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	TB21
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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

### Species Cross Reactivity

Reacts with: Rat, Sheep, Mustelid, Mink, Rabbit, Mouse

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or

personal communications from the originators. Please refer to references indicated for further information.

<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Human Transforming Growth Factor Beta 1 from platelets.
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P01137</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">7040</a> TGFB1 <a href="#">Related reagents</a>
<b>Synonyms</b>	TGFB
<b>RRID</b>	AB_2201912
<b>Fusion Partners</b>	Spleen cells from immunised Balb/c mice were fused with cells of the SP2/0-Ag 14 mouse myeloma cell line.
<b>Specificity</b>	<b>Mouse anti Human TGF beta antibody, clone TB21</b> 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.
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label $1 \times 10^6$ cells in 100ul
<b>Histology Positive Control Tissue</b>	Human Breast Carcinoma
<b>References</b>	1. Bob, F. <i>et al.</i> (2014) Immunohistochemical study of tubular epithelial cells and vascular endothelial cells in glomerulonephritis. <a href="#">Ren Fail. 36: 1208-14.</a> 2. Lehr, E.J. <i>et al.</i> (2010) Decellularization reduces immunogenicity of sheep pulmonary artery vascular patches. <a href="#">J Thorac Cardiovasc Surg. 141: 1056-62.</a> 3. Westermann, D. <i>et al.</i> (2011) Cardiac inflammation contributes to changes in the

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**Storage**

Store at +4°C or at -20°C if preferred.

This product should be stored undiluted.

Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**

6 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/MCA79710040>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

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|---|----------------------|
| Rabbit Anti Mouse IgG (STAR12...)       | <a href="#">RPE</a>  |
| Goat Anti Mouse IgG IgA IgM (STAR87...) | <a href="#">HRP</a>  |
| Goat Anti Mouse IgG (STAR76...)         | <a href="#">RPE</a>  |
| Rabbit Anti Mouse IgG (STAR13...)       | <a href="#">HRP</a>  |
| Goat Anti Mouse IgG (STAR70...)         | <a href="#">FITC</a> |

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 \(MCA928\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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