**Datasheet: MCA797T**

<table>
<thead>
<tr>
<th>Description:</th>
<th>MOUSE ANTI HUMAN TGF BETA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specificity:</td>
<td>TGF BETA</td>
</tr>
<tr>
<td>Other names:</td>
<td>TRANSFORMING GROWTH FACTOR BETA</td>
</tr>
<tr>
<td>Format:</td>
<td>Purified</td>
</tr>
<tr>
<td>Product Type:</td>
<td>Monoclonal Antibody</td>
</tr>
<tr>
<td>Clone:</td>
<td>TB21</td>
</tr>
<tr>
<td>Isotype:</td>
<td>IgG1</td>
</tr>
<tr>
<td>Quantity:</td>
<td>10 µg</td>
</tr>
</tbody>
</table>

**Product Details**

<table>
<thead>
<tr>
<th>RRID</th>
<th>AB_2201910</th>
</tr>
</thead>
</table>

**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).

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow Cytometry (1)</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Immunohistology - Frozen</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Immunohistology - Paraffin</td>
<td></td>
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</tr>
</tbody>
</table>

Where this antibody 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 antibody 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.**

**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.

**Product Form**

Purified IgG - liquid

**Preparation**

Purified IgG prepared by affinity chromatography

**Buffer Solution**

Phosphate buffered saline

**Preservative Stabilisers**

0.09% Sodium Azide

**Approx. Protein Concentrations**

IgG concentration 1.0 mg/ml
Immunogen: Human Transforming Growth Factor Beta 1 from platelets.

External Database Links:
- UniProt: P01137
- Entrez Gene: 7040

Synonyms: TGFB

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:
13. Shi, W.K. et al. (1993) [Biological characterization of a monoclonal antibody TB 21 against...

**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.

**Guarantee**

6 months from date of despatch

**Health And Safety Information**


**Regulatory**

For research purposes only

**Related Products**
Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) Alk. Phos., HRP
Goat Anti Mouse IgG (STAR77...) HRP
Rabbit Anti Mouse IgG (STAR12...) RPE
Rabbit Anti Mouse IgG (STAR8...) DyLight®800
Rabbit Anti Mouse IgG (STAR13...) HRP
Goat Anti Mouse IgG (STAR76...) RPE
Goat Anti Mouse IgG (STAR70...) FITC
Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP
Rabbit Anti Mouse IgG (STAR9...) FITC
Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®680, DyLight®800, FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)