## 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).

<table>
<thead>
<tr>
<th>Applications</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>
</tr>
<tr>
<td>Immunohistology - Frozen</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunohistology - Paraffin (2)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ELISA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Immunoprecipitation</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Western Blotting</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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™](https://www.bio-rad-antibodies.com) (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, Bovine

**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  Related reagents

Entrez Gene:  
7040  TGFB1  Related reagents

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


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.

Shelf Life
6 months from date of despatch.

Health And Safety Information
Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)   HRP
Rabbit Anti Mouse IgG (STAR13...)   HRP
Goat Anti Mouse IgG (Fc) (STAR120...)   FITC, HRP
Rabbit Anti Mouse IgG (STAR8...)   DyLight®800
Goat Anti Mouse IgG (STAR76...)   RPE
Rabbit Anti Mouse IgG (STAR12...)   RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)   Alk. Phos., HRP
Goat Anti Mouse IgG (H/L) (STAR117...)   Alk. Phos., DyLight®488, DyLight®549,
                                              DyLight®649, DyLight®680, DyLight®800,
                                              FITC, HRP
Rabbit Anti Mouse IgG (STAR9...)   FITC
Human Anti Mouse IgG1 (HCA036...)   HRP
Goat Anti Mouse IgG (STAR70...)   FITC

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)