



## RayBiotech, Inc.

3607 Parkway Lane suite 200  
Norcross, GA 30092  
Tel: 770-729-2992, 1-888-494-8555  
Fax: 770-206-2393  
Website: [www.raybiotech.com](http://www.raybiotech.com)  
Email: [info@raybiotech.com](mailto:info@raybiotech.com)

### Certificate of Analysis and Data Sheet

## MOUSE ANTI HUMAN TGF ALPHA

With HRP-conjugated secondary antibody

**Catalog No.**  
DS-MB-02403

**Species:**  
Human

**Isotype:**  
Mouse IgG1

### Description

Transforming growth factor- $\alpha$  (TGF $\alpha$ ) is an acid- and heat-stable 50 amino acid protein of 5.5 kDa originally found in rodents and humans. TGF $\alpha$  is 33% homologous at the amino acid level to epidermal growth factor (EGF). TGF $\alpha$  binds to the EGF receptor, mediates tyrosine phosphorylation of the receptor and promotes anchorage-independent growth of normal rat fibroblasts in soft agar in the presence of transforming growth factor- $\beta$ . TGF $\alpha$  is secreted by a variety of transformed cells and tumors, embryonic cells and some normal adult cells. TGF $\alpha$  bioactivity has been found in the urine of cancer patients. It has been suggested that it may act as an autocrine growth factor for the induction or maintenance of malignancy.

### Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	•			1/10
Western Blotting			•	
Immunohistology - frozen		•		
Immunohistology - paraffin		•		
Immunohistology - resin		•		
Immunoprecipitation			•	
Flow Cytometry			•	
Immunofluorescence staining			•	
Neutralization			•	

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**



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### Preparation

Immunogen was 32-40 AA sequence linked to thyroglobulin. This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with the immunogen.

### Specificity

Human TGF - alpha

### Reconstitution

Supplied as 2ml of tissue Culture Supernatant containing 0.2M Tris/HCl pH7.4 and 5-10% foetal calf serum. **Please avoid freeze-thaw cycles.**

### Secondary Antibody Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Immunoassay (ELISA, Western blot)	•			1:5000-1:10000

### Storage

Store at -20°C, if not intended for use within a month. Keep it at 4°C and minimize freezing and thawing when use.

### Reference

Bebök, Zs., Márkus, B., Németh, P. (1994) Prognostic relevance of transforming growth factor alpha (TGFalpha) and tumour necrosis factor alpha (TNF-alpha) detected in breast cancer tissues by immunohistochemistry. Breast Cancer Res. Treat. 29: 229-235.

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