



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Mouse Anti-Human TGF beta

With HRP-conjugated Secondary Antibody

Catalog No.

DS-MB-03422

Target Species

Human

Isotype

IgG1

Preparation

Purified IgG prepared by affinity chromatography

Synonyms: TGFB

Immunogen: Human Transforming Growth Factor Beta 1 from platelets

Fusion Partners: Spleen cells from immunized BALB/c mice were fused with cells of the SP2/0-Ag 14 mouse myeloma cell line.

Formulation

Product Form: Purified IgG - liquid

Product Type: Monoclonal Antibody

Buffer Solution: Phosphate buffered saline

Preservative Stabilizers: 0.09% Sodium Azide

Approx. Protein Concentrations: IgG concentration 1.0 mg/ml

Specificity

DS-MB-03422 recognizes both human platelet-derived and recombinant TGF-beta1 in enzyme-linked immunosorbent assay (ELISA). DS-MB-03422 demonstrates neutralizing activity against TGF-beta1 in cell proliferation assays. Removal of sodium azide is recommended prior to use in functional assays. DS-MB-03422 has been demonstrated to react with dimeric (25kD) or monomeric (12.5kD) molecules of natural TGF-beta1 under non-reducing and reducing conditions respectively.

Species Cross Reactivity Reacts with: Rat, Sheep, Mustelid

N.B. Antibody reactivity and working conditions may vary between species.

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 dispatch.

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



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Applications

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
Flow Cytometry(1)	•			
Immunohistology - Frozen	•			
Immunohistology - Paraffin(2)	•			
Immunohistology - Resin			•	
Western Blotting			•	

Note: Other applications have not been tested. Optimal dilutions should be determined.

(1) Membrane permeabilization is required for this application.

(2) This product does not require protein digestion pre-treatment of paraffin sections.

Paraformaldehyde fixation recommended. Histology Positive Control Tissue: Human Breast Carcinoma

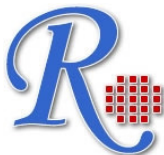
Secondary Antibody Applications

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

Reference

- Garba, M .L. and Frelinger, J. A. (2001) Intracellular cytokine staining for TGF-beta. J. Immunol. Methods. 258: 193 - 198.
- Lehr, E.J.*et al.* (2010) Decellularization reduces immunogenicity of sheep pulmonary artery vascular patches. J Thorac Cardiovasc Surg. Jul 14. [Epub ahead of print]
- Westermann, D. *et al.* (2011) Cardiac inflammation contributes to changes in the extracellular matrix in patients with heart failure and normal ejection fraction. Circ Heart Fail. 4: 44-52.
- Brown, H. *et al.* (1999) Cytokine expression in the brain in human cerebral malaria. J Infect Dis. 180: 1742-6.
- Helske, S. *et al.* (2006) Possible role for mast cell-derived cathepsin G in the adverse remodelling of stenotic aortic valves. Eur Heart J. 27: 1495-504.

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6. Hsiao, Y.W. *et al.* (2004) Tumor-infiltrating lymphocyte secretion of IL-6 antagonizes tumor-derived TGF-beta 1 and restores the lymphokine-activated killing activity. *J Immunol.* 172: 1508-14.
 7. Kingston, P.A. *et al.* (2003) Adenovirus-mediated gene transfer of transforming growth factor-beta3, but not transforming growth factor-beta1, inhibits constrictive remodeling and reduces luminal loss after coronary angioplasty. *Circulation.* 108: 2819-25.
 8. Lavaud, S. *et al.* (2001) Inflammation is probably not a prerequisite for renal interstitial fibrosis in normoglycemic obese rats. *Am J Physiol Renal Physiol.* 280: F683-94.
 9. Sheu, B.C. *et al.* (2001) Predominant Th2/Tc2 polarity of tumor-infiltrating lymphocytes in human cervical cancer. *J Immunol.* 167: 2972-8.
 10. Hopkinson, A. *et al.* (2006) Amniotic membrane for ocular surface reconstruction: donor variations and the effect of handling on TGF-beta content. *Invest Ophthalmol Vis Sci.* 47: 4316-22.
 11. Sumpter, T.L. *et al.* (2007) Regulation of the NFAT pathway discriminates CD4+CD25+ regulatory T cells from CD4+CD25- helper T cells. *J Leukoc Biol.* 83: 708-17.
 12. Braun, N. *et al.* (2011) Difference in the expression of hormone receptors and fibrotic markers in the human peritoneum--implications for therapeutic targets to prevent encapsulating peritoneal sclerosis. *Perit Dial Int.* 31: 291-300.

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