



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Rat Anti Mouse TNF-alpha

With HRP-conjugated Secondary Antibody

Catalog No.

DS-MB-02427

Target Species

Mouse

Isotype

IgG1

Preparation

Immunogen: Recombinant murine TNF alpha expressed in E. coli

Purification: Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG – liquid

Buffer: Phosphate buffered saline

Preservative Stabilizers: 0.09% Sodium Azide

Approx. Protein Concentration: IgG concentration 1.0mg/ml

Specificity

DS-MB-02427 is specific for mouse tumor necrosis factor alpha (TNF alpha), a 17 KDa cytokine produced by monocytes, macrophages, neutrophils, NK cells and CD4+ T cells. TNF alpha forms dimers and trimers, and is also found as a 26KDa integral membrane protein. Mouse TNF alpha has cytolytic activity against many tumor cell lines, and has an important immuno-regulatory role.

DS-MB-02427 is reported to neutralize the effects of mouse TNF alpha (4,5).

Species Crossreactivity: Also reacts with Rat. *Antibody reactivity and working conditions may vary between species.

Storage

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

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody.

Shelf Life: 18 months from date of shipment

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



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Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	•			1ug/ml - 10ug/ml
Western Blotting			•	
IHC – Paraffin			•	
IHC - Frozen	•			
Flow Cytometry (1)	•			1/10 - 1/50

Note: Other applications are not tested yet. Optimal dilutions should be determined by each laboratory for each application.
(1) Use 10ul of the suggested working dilution to label 106 cells in 100ul. Method sheets are available on request.

Secondary Antibody Applications

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

References

1. Abrams, J. S. *et al.* (1992) Strategies of anti-cytokine monoclonal antibody development: immunoassay of IL-10 and IL-5 in clinical samples *Immunol. Rev.* 127: 5-24.
2. Hostager, B. *et al.* (2002) Role of TNF receptor-associated factor 2 in the activation of IgM secretion by CD40 and CD120b. *J. Immunol.* 168:3318-3322.
3. Ross, S. *et al.* (1997) Suppression of TNF-alpha expression, inhibition of Th1 activity, and amelioration of collagen-induced arthritis by rolipram. *J. Immunol.* 159:6253-6259.
4. Scanga, C. *et al.* (1999) Reactivation of latent tuberculosis : variations on the Cornell murine model. *Infect. Immun.* 67:4531-4538.
5. Yang, J. *et al.* (1995) Involvement of natural killer cells in nitric oxide production by spleen cells after stimulation with *Mycobacterium bovis* BCG. Study of the mechanism of the different abilities of viable and killed BCG. *J. Immunol.* 155:5728-5735.

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