



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

MOUSE ANTI BOVINE TNF ALPHA:Biotin

With HRP-conjugated Secondary Antibody

Catalog No.
DS-MB-02437

Species
Bovine

Isotype
IgG2a

Preparation

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

Immunogen: Recombinant bovine TNF alpha

Specificity

This product recognizes bovine TNF alpha, a 17.5kDa cytokine, expressed by many different stimulated cell types including monocytes, macrophages, endothelial cells, fibroblasts and both T and B-lymphocytes.

The production of TNF alpha is induced by a variety of factors, dependant upon cell type and includes bacterial toxins, IL-1, PDGF, IFN-beta, NGF, Oncostatin M and viral infections. The presence of TNF alpha is responsible for diverse immunomodulatory, anti-tumour and toxic effects and under certain conditions is also capable of self-stimulation and inhibition.

This biotin conjugate may be used as a detection antibody in ELISA assays for bovine TNF alpha in combination with DS-MB-02436 as capture reagent.

Species Cross Reacts with: Sheep (Antibody reactivity and working conditions may vary between species.)

Formulation

Product Type: Monoclonal Antibody

Product Form: Purified IgG conjugated to Biotin - liquid

Buffer Solution: Phosphate buffered saline pH7.4

Preservative & Stabilizers: 0.09% Sodium Azide

Approx. Protein Concentrations: IgG concentration 1.0 mg/ml

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



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Storage

18 months from date of dispatch.

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.

Applications

Table Summary of antibody applications and working conditions

Options Functions	YES	NO	Not determined	Recommended Work dilution or concentration
ELISA	•			1ug/ml - 5ug/ml
Western Blotting			•	
Immunohistology - frozen			•	
Immunohistology - paraffin			•	
Immunohistology - resin			•	
Immunoprecipitation			•	
Flow Cytometry(*)	•			1/10 - 1/100
Immunofluorescence staining			•	
Neutralization			•	

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

* Use 10ul of the suggested working dilution to label 10^6 cells in 100ul

Secondary Antibody Applications

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

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Reference

1. Hope, J.C. et al. (2003) Maturation of bovine dendritic cells by lipopeptides. *Vet. Immunol. Immunopathol.* 95: 21-31.
2. Whelan, A.O. et al. (2003) Modulation of the bovine delayed-type hypersensitivity responses to defined mycobacterial antigens by a synthetic bacterial lipopeptide. *Infect. Immun.* 71(11): 6420-6425.
3. Guernon, J. et al. (2003) A tumour necrosis factor alpha autocrine loop contributes to proliferation and nuclear factor-kappaB activation of Theileria parva-transformed B cells. *Cell. Microbiol.* 5(10): 709-716.

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