

Datasheet: MCA2335B

Description:	MOUSE ANTI BOVINE TNF ALPHA:Biotin
Specificity:	TNF ALPHA
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	CC328
Isotype:	IgG2a
Quantity:	0.25 mg

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.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen			■	
Immunohistology - Paraffin			■	
ELISA	■			1ug/ml - 5ug/ml
Western Blotting			■	

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.

Target Species	Bovine
Species Cross Reactivity	Reacts with: Sheep N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG conjugated to Biotin - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant bovine TNF alpha.
External Database Links	UniProt:

Entrez Gene:

[280943](#) TNF [Related reagents](#)

Synonyms TNFA, TNFSF2

Specificity **Mouse anti Bovine TNF alpha antibody, clone CC328** 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.

Flow Cytometry Use 10ul of the suggested working dilution to label 1×10^6 cells in 100ul.

ELISA Biotinylated Mouse anti Bovine TNF alpha antibody, clone CC328 may be used as a detection antibody in a sandwich ELISA for bovine TNF alpha in combination with Mouse anti Bovine TNF α antibody, clone CC327 ([MCA2334](#)) as capture reagent. Recombinant Bovine TNF α ([PBP005](#)) may be used as a standard.

- References**
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 \(11\): 6420-5.](#)
 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 \(10\): 709-16.](#)
 4. Kwong, L.S. *et al.* (2010) Production and characterization of two monoclonal antibodies to bovine tumour necrosis factor alpha (TNF-alpha) and their cross-reactivity with ovine TNF-alpha. [Vet Immunol Immunopathol. 135 \(3-4\): 320-4.](#)
 5. Sow, F.B. *et al.* (2011) Respiratory syncytial virus is associated with an inflammatory response in lungs and architectural remodeling of lung-draining lymph nodes of newborn lambs. [Am J Physiol Lung Cell Mol Physiol. 300 \(1\): L12-24.](#)
 6. Simojoki, H. *et al.* (2011) Innate immune response in experimentally induced bovine intramammary infection with *Staphylococcus simulans* and *S. epidermidis*. [Vet Res. 42: 49.](#)
 7. Redondo, E. *et al.* (2014) Induction of interleukin-8 and interleukin-12 in neonatal ovine lung following experimental inoculation of bovine respiratory syncytial virus. [J Comp Pathol. 150 \(4\): 434-48.](#)
 8. Camejo, M.I. *et al.* (2014) TNF-alpha in bulls experimentally infected with *Trypanosoma vivax*: a pilot study. [Vet Immunol Immunopathol. 162 \(3-4\): 192-7.](#)
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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 18 months from date of despatch.

Health And Safety Information Material Safety Datasheet Documentation #10040 available at:
<https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

STREPTAVIDIN (STAR119...)[APC](#)

North & South America Tel: +1 800 265 7376
Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

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Fax: +44 (0)1865 852 739

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