

Datasheet: AHP852B

Description:	RABBIT ANTI BOVINE TNF ALPHA:Biotin
Specificity:	TNF ALPHA
Format:	Biotin
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			0.5ug/ml - 1.0ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			1ug/ml - 10ug/ml

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

Target Species	Bovine
Product Form	Purified IgG conjugated to Biotin - liquid
Antiserum Preparation	Antisera to bovine TNF alpha were raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG was prepared by affinity chromatography on protein G.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)
Endotoxin Level	0.50 EU/mg
Approx. Protein	IgG concentration 1.0 mg/ml

Concentrations

Immunogen Recombinant bovine TNF alpha.

External Database Links

UniProt:

[Q06599](#) [Related reagents](#)

Entrez Gene:

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

Synonyms TNFA, TNFSF2

RRID AB_2204111

Specificity **Rabbit anti Bovine TNF alpha antibody** recognizes bovine tumour necrosis factor alpha (TNF alpha).

TNF alpha is produced by a range of cells including macrophages, monocytes, T and B cells, neutrophils and endothelial cells. TNF alpha has a key regulatory role in the bovine immune response, where it is involved in modulating the expression of numerous cytokines, growth factors, inflammatory mediators and acute phase proteins.

References

1. Wenz, J.R. *et al.* (2010) Factors associated with concentrations of select cytokine and acute phase proteins in dairy cows with naturally occurring clinical mastitis. [J Dairy Sci. 93: 2458-70.](#)
 2. Rinaldi, M. *et al.* (2010) A sentinel function for teat tissues in dairy cows: dominant innate immune response elements define early response to *E. coli* mastitis. [Funct Integr Genomics. 10: 21-38.](#)
 3. Cigliano, L. *et al.* (2016) Evaluation of serum markers of blood redox homeostasis and inflammation in PCB naturally contaminated heifers undergoing decontamination [Science of The Total Environment. 542: 653-64.](#)
 4. Canal AM *et al.* (2017) Immunohistochemical detection of pro-inflammatory and anti-inflammatory cytokines in granulomas in cattle with natural *Mycobacterium bovis* infection. [Res Vet Sci. 110: 34-39.](#)
 5. Baravalle ME *et al.* (2015) Altered Expression of Pro-inflammatory Cytokines in Ovarian Follicles of Cows with Cystic Ovarian Disease. [J Comp Pathol. 153 \(2-3\): 116-30.](#)
 6. Castel, A. *et al.* (2021) Recording and manipulation of vagus nerve electrical activity in chronically instrumented unanesthetized near term fetal sheep. [J Neurosci Methods. 360: 109257.](#)
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Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee 12 months from date of despatch

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

Regulatory For research purposes only

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To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)
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