

## Datasheet: AAM19GA

**BATCH NUMBER 171379**

<b>Description:</b>	RABBIT ANTI MOUSE TNF ALPHA
<b>Specificity:</b>	TNF ALPHA
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.1 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA	▪			0.5 - 2.0ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 0.2ug/ml
Functional Assays	▪			0.01 - 0.015ug/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 the appropriate negative/positive controls.

#### Target Species

Mouse

#### Product Form

Purified IgG - lyophilized

#### Reconstitution

Reconstitute with 0.1 ml distilled water

Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. Bio-Rad recommend that the vial is gently mixed after reconstitution. For long term storage the addition of 0.09% sodium azide is recommended. N.B. For functional studies do not add sodium azide.

#### Antiserum Preparation

Antisera to mouse TNF $\alpha$  were raised by repeated immunisation of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.

<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml after reconstitution.
<b>Immunogen</b>	<a href="#">Recombinant mouse TNF<math>\alpha</math></a> (PMP24)
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P06804</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">21926</a>    Tnf    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	Tnfa, Tnfsf2
<b>RRID</b>	AB_609802
<b>Specificity</b>	<p><b>Rabbit anti Mouse TNF alpha antibody</b> recognizes mouse Tumour Necrosis Factor alpha (TNF–alpha), a 17.3kDa multi-functional pro-inflammatory cytokine primarily secreted by macrophages, but also produced by T and B lymphocytes, activated monocytes and fibroblasts.</p> <p>TNF-alpha exists in both a transmembrane and mature soluble form and has many biological properties, including activation of transcription factor NF-KappaB, the induction of apoptosis in various tumour cell lines and the stimulation of cell differentiation and proliferation under certain conditions. TNF-alpha is involved in inflammation, septic shock, autoimmune disease and rheumatoid arthritis. This Rabbit anti Mouse TNF-alpha antibody can be used to neutralize the effects of mouse TNF-alpha.</p>
<b>ELISA</b>	Rabbit anti Mouse TNF $\alpha$ (purified) may be used in an indirect ELISA with <a href="#">recombinant mouse TNF<math>\alpha</math></a> (PMP24) as the standard.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Khaskhely, N.M. <i>et al.</i> (2002) Low-dose UVB contributes to host resistance against <i>Leishmania amazonensis</i> infection in mice through induction of gamma interferon and tumor necrosis factor alpha cytokines. <a href="#">Clin Diagn Lab Immunol. 9: 677-86.</a></li> <li>2. Schafers, M. <i>et al.</i> (2002) Anterograde transport of tumor necrosis factor-alpha in the intact and injured rat sciatic nerve. <a href="#">J Neurosci. 22: 536-45.</a></li> <li>3. Oakley, F. <i>et al.</i> (2005) Nuclear factor-kappaB1 (p50) limits the inflammatory and fibrogenic responses to chronic injury. <a href="#">Am J Pathol. 166: 695-708.</a></li> <li>4. El-Naseery, N.I. <i>et al.</i> (2023) Human umbilical cord blood-derived mesenchymal stem cells restored hematopoiesis by improving radiation induced bone marrow niche remodeling in rats. <a href="#">Ann Anat. 250: 152131.</a></li> <li>5. Ferreras-Colino, E. <i>et al.</i> (2023) Oral immunization with heat-inactivated <i>Mycobacterium</i></li> </ol>

*bovis* reduces local parasite dissemination and hepatic granuloma development in mice infected with *Leishmania amazonensis*. [Res Vet Sci. 162: 104963.](#)

6. Kim, S. & Hong, H.S. (2024) Substance P alleviates liver fibrosis by modulating inflammation and mobilizing reparative stem cells. [Int Immunopharmacol. 142 \(Pt B\): 113211.](#)

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**Further Reading** 1. Van Horssen, R. *et al.* (2006) TNF-alpha in cancer treatment: molecular insights, antitumor effects, and clinical utility. [The Oncologist. 11: 397-408.](#)

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**Storage** This product is shipped at ambient temperature.  
Prior to reconstitution store at -20°C.  
After reconstitution store at -20°C.

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.

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**Guarantee** 12 months from date of despatch

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**Health And Safety Information** Material Safety Datasheet documentation #10294 available at: <https://www.bio-rad-antibodies.com/SDS/AAM19GA>

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**Regulatory** For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Sheep Anti Rabbit IgG (STAR35...) [RPE](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

### Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

**Product inquiries:** [www.bio-rad-antibodies.com/technical-support](http://www.bio-rad-antibodies.com/technical-support)

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