

Datasheet: AAR33B

Description:	RABBIT ANTI RAT TNF ALPHA:Biotin
Specificity:	TNF ALPHA
Format:	Biotin
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µg

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	▪			0.15 - 0.30ug/ml
Western Blotting	▪			0.1 - 0.2ug/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	Rat
Product Form	Purified IgG conjugated to Biotin - lyophilised
Reconstitution	Reconstitute with 0.5ml sterile PBS containing 0.1% bovine serum albumin 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.
Antiserum Preparation	Antisera to rat TNF alpha were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None Present
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml after reconstitution
Immunogen	Recombinant rat TNF alpha (PRP16).

**External Database
Links**

UniProt:

[P16599](#) [Related reagents](#)

Entrez Gene:

[24835](#) Tnf [Related reagents](#)

Synonyms

Tnfa, Tnfsf2

Specificity

Rabbit anti Rat TNF alpha antibody recognizes rat tumor necrosis factor alpha (TNF α), also known as Cachectin or Tumor necrosis factor ligand superfamily member 2. Rat TNF α is a 235 amino acid ~17 kDa single pass type II O-linked transmembrane glycoprotein, it also exists as a secreted cytokine through cleavage between residues 79 and 80. TNF α is produced by many cell types including macrophages, monocytes, neutrophils and a population of activated NK cells.

ELISA

This product may be used in a direct ELISA or as a detection reagent in a sandwich ELISA together with [AAR33](#) as the capture reagent and [PRP16](#) as the standard.

References

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7. Aharon-Hananel G *et al.* (2015) Antidiabetic Effect of Interleukin-1 β Antibody Therapy Through β -Cell Protection in the Cohen Diabetes-Sensitive Rat. [Diabetes. 64 \(5\): 1780-5.](#)
8. Savard, A. *et al.* (2013) Involvement of neuronal IL-1 β in acquired brain lesions in a rat model of neonatal encephalopathy. [J Neuroinflammation. 10: 110.](#)
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12. Li, J. *et al.* (2016) Propofol reduces liver dysfunction caused by tumor necrosis factor- α production in Kupffer cells. [J Anesth. 30 \(3\): 420-6.](#)
13. Dyck, S. *et al.* (2018) Perturbing chondroitin sulfate proteoglycan signaling through LAR and PTP σ receptors promotes a beneficial inflammatory response following spinal cord injury. [J Neuroinflammation. 15 \(1\): 90.](#)

Storage

Prior to reconstitution store at +4 $^{\circ}$ C. Following reconstitution store at -20 $^{\circ}$ 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.

Shelf Life 12 months from date of reconstitution.

Health And Safety Information Material Safety Datasheet documentation #10162 available at:
10162: <https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf>

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