

Datasheet: AAR33

Description:	RABBIT ANTI RAT TNF ALPHA
Specificity:	TNF ALPHA
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin	▪			
ELISA	▪			0.5 - 2.0 ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			0.1 - 0.2 ug/ml
Functional Assays	▪			0.07 - 0.1 ug/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 systems with the appropriate negative/positive controls.

Target Species

Rat

Product Form

Purified IgG - lyophilized

Reconstitution

Reconstitute with 0.1ml 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 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
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml after reconstitution.
Immunogen	Recombinant rat TNF alpha (PRP16).
External Database Links	<p>UniProt: P16599 Related reagents</p> <p>Entrez Gene: 24835 Tnf Related reagents</p>
Synonyms	Tnfa, Tnfsf2
RRID	AB_2204372
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 an indirect ELISA or as a capture antibody in a sandwich ELISA together with AAR33B as the detection reagent and PRP16 as the standard.
References	<ol style="list-style-type: none"> Halin, S. <i>et al.</i> (2010) Pigment epithelium-derived factor stimulates tumor macrophage recruitment and is downregulated by the prostate tumor microenvironment. Neoplasia. 12: 336-45. Khandelwal, P.J. <i>et al.</i> (2010) Parkinson-related parkin reduces α-Synuclein phosphorylation in a gene transfer model. Mol Neurodegener. 5: 47. Sandoval, J. <i>et al.</i> (2010) Ordered transcriptional factor recruitment and epigenetic regulation of tnf-alpha in necrotizing acute pancreatitis. Cell Mol Life Sci. 67: 1687-97. Irwin, M.W. <i>et al.</i> (1999) Tissue expression and immunolocalization of tumor necrosis factor-alpha in postinfarction dysfunctional myocardium. Circulation. 99: 1492-8. El-Kharashi, O.A. <i>et al.</i> (2011) The Potential Pharmacological and Histological Benefits of Carvedilol on the Hippocampal Post- Stroke Seizures in Rats Life Science Journal. 8: 951-60 Elgarf, A.S. <i>et al.</i> (2014) Lipopolysaccharide repeated challenge followed by chronic mild stress protocol introduces a combined model of depression in rats: reversibility by imipramine and pentoxifylline. Pharmacol Biochem Behav. 126: 152-62. Aharon-Hananel G <i>et al.</i> (2015) Antidiabetic Effect of Interleukin-1β Antibody Therapy Through β-Cell Protection in the Cohen Diabetes-Sensitive Rat. Diabetes. 64 (5): 1780-5.

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Storage

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.

Guarantee

12 months from date of despatch

Health And Safety Information

Material Safety Datasheet documentation #10294 available at:
10294: <https://www.bio-rad-antibodies.com/uploads/MSDS/10294.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

- Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
- 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

- [ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)
- [TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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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

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