

## Datasheet: PRP16

**BATCH NUMBER 164403**

<b>Description:</b>	RECOMBINANT RAT TNF ALPHA
<b>Name:</b>	TNF ALPHA
<b>Format:</b>	Rec. Protein
<b>Product Type:</b>	Recombinant Protein
<b>Quantity:</b>	20 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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			0.2 - 0.4 ng/well
Western Blotting	▪			1.5 - 3.0 ng/lane
Functional Assays	▪			

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.

<b>Target Species</b>	Rat
<b>Product Form</b>	Purified recombinant protein - lyophilized
<b>Reconstitution</b>	Reconstitute with 0.2ml 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.
<b>Preparation</b>	Recombinant rat TNF alpha purified from <i>E.coli</i> .
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	None present
<b>Carrier Free</b>	Yes
<b>Endotoxin Level</b>	< 0.1 ng/ug

<b>Approx. Protein Concentrations</b>	Total protein concentration 0.1 mg/ml after reconstitution.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P16599</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">24835</a>    Tnf    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	Tnfa, Tnfsf2
<b>Product Information</b>	Recombinant rat TNF alpha was tested in a cytotoxicity assay on murine L929 cells - this batch demonstrated an ED50 of <0.05ng/ml.
<b>Protein Molecular Weight</b>	17.3kD (157 Amino acid sequence)
<b>Activity</b>	>2 x 10 <sup>7</sup> units/mg
<b>Purity</b>	>98% by SDS PAGE and HPLC
<b>ELISA</b>	This product may be used as a standard in ELISA applications with either <a href="#">AAR33</a> or <a href="#">AAR33B</a> .
<b>Western Blotting</b>	This product may be used as the positive control in Western Blotting applications with either <a href="#">AAR33</a> or <a href="#">AAR33B</a> .
<b>References</b>	<ol style="list-style-type: none"> <li>1. Rayner, S.A. <i>et al.</i> (2000) Local bioactive tumour necrosis factor (TNF) in corneal allotransplantation. <a href="#">Clin Exp Immunol. 122 (1): 109-16.</a></li> <li>2. Lee, P.T. <i>et al.</i> (2000) Role of alveolar macrophages in innate immunity in neonates: evidence for selective lipopolysaccharide binding protein production by rat neonatal alveolar macrophages. <a href="#">Am J Respir Cell Mol Biol. 23 (5): 652-61.</a></li> <li>3. Dumont, A.O. <i>et al.</i> (2014) Differential Regulation of Glutamate Transporter Subtypes by Pro-Inflammatory Cytokine TNF-<math>\alpha</math> in Cortical Astrocytes from a Rat Model of Amyotrophic Lateral Sclerosis. <a href="#">PLoS One. 9: e97649.</a></li> </ol>
<b>Storage</b>	<p>Prior to reconstitution store at -20°C. Following reconstitution store at -20°C.</p> <p>This product should be stored undiluted.</p> <p>Storage in frost-free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
<b>Guarantee</b>	Guaranteed for 3 months from the date of reconstitution or until the date of expiry, whichever comes first. Please see label for expiry date.
<b>Health And Safety</b>	Material Safety Datasheet documentation #10302 available at:

**Information**

<https://www.bio-rad-antibodies.com/SDS/PRP16>

10302

---

**Regulatory**

For research purposes only

---

**North & South**

Tel: +1 800 265 7376

**America**

Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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)

'M402831:220720'

**Printed on 29 Feb 2024**

---

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)