

## TNF-α (Ms) ABfinity™ Recombinant Rabbit Monoclonal Antibody – Purified

Publication Part no. MAN0005601

Rev. 1.0

Catalog Number: 701135

Store at 2 to 8°C (short-term), or -20°C (long-term)

**Clonality:** Monoclonal  
**Concentration:** 0.5 mg/mL  
**Quantity:** 100 µg  
**Volume:** 200 µL

**Host/Class:** Rabbit IgG  
**Reactivity:** Mouse TNF-alpha  
**Predicted Reactivity:** Mouse

### Product Description

Tumor necrosis factor alpha (TNF-α), is a proinflammatory cytokine produced by activated macrophages belonging to the tumor necrosis factor (TNF) superfamily. It induces neutrophil proliferation during inflammation, and neutrophil apoptosis upon binding to the TNF-R55 receptor. It is involved in the regulation of a wide range of biological processes which includes cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. This antibody was raised against mouse TNF-α. In mouse, the gene is located on chromosome 17.

### Product Specifications

**Immunogen:** Recombinant protein corresponding to amino acids 80–235 of mouse tumor necrosis factor alpha  
**Alternate Names:** Tnfa, TNFSF2, Cachectin  
**Apparent MW:** ~26 kDa  
**Gene ID:** 21926  
**Protein Accession No.:** P06804  
**Sequence Identity:** Mouse  
**Sequence Homology:** Rat  
**Clone/PAD:** 17H1L4  
**Lot:** See product label

### Product Applications

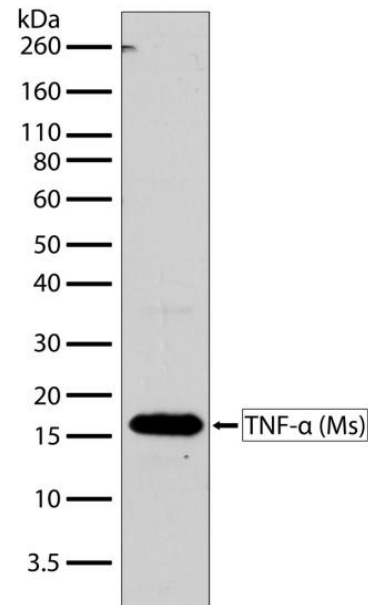
Application	Species	Test Material	Concentration
Western blotting	Mouse	Active recombinant protein	0.1–2 µg/mL
Indirect ELISA	Mouse	Recombinant protein	1.5 × 10 <sup>-4</sup> to 3 µg/mL

### Storage and Handling

Store the antibody at 2 to 8°C for up to 1 month, or -20°C for long storage. Avoid repeated freezing and thawing.

### Stability

Expires one year from date of receipt when stored as instructed.



**Figure 1** Western blot analysis of TNF-α (Ms) ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701135). Western blot analysis was performed on active recombinant mouse TNF-α protein at ~17 kDa was detected using TNF-α (Ms) ABfinity™ Recombinant Rabbit Monoclonal Antibody at a concentration of 0.1 µg/mL. The blot was developed using chemiluminescence (ECL) method.

**For research use only. Not for human or animal therapeutic or diagnostic use.**

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## Storage Buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.

**Note:** Sodium azide is an extremely toxic and dangerous compound particularly when combined with acids or metals. Properly dispose of solutions containing sodium azide.

## Safety Data Sheets (SDS)

Safety Data Sheets (SDSs) are available at [www.invitrogen.com/sds](http://www.invitrogen.com/sds).

## Certificate of Analysis

The Certificate of Analysis provides detailed quality control and product qualification information for each product. Certificates of Analysis are available on our website. Go to [www.invitrogen.com/support](http://www.invitrogen.com/support) and search for the Certificate of Analysis by product lot number, which is printed on the box.

## Related Products

Product Name	Quantity	Catalog No.
iBlot® Dry Blotting System	1 unit	IB1001
WesternBreeze™ Chromogenic Kit Anti-Rabbit	1 kit	WB7105
WesternBreeze™ Chemiluminescent Kit, Anti-Rabbit	1 kit	WB7106
Goat anti-mouse (H+L), HRP conj.	1 mg	G21040
Goat anti-rabbit (H+L), HRP conj.	1 mg	G21234
Goat anti-mouse (H+L), AP conj.	1 mg	G21060
Goat anti-rabbit (H+L), AP conj.	1 mg	G21079
Nitrocellulose, 0.2 µm	20/pack	LC2000

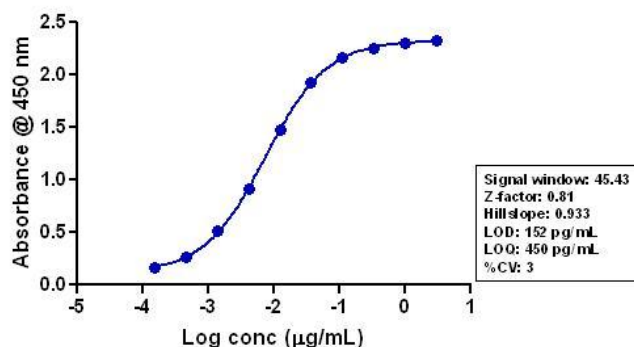
### Explanation of symbols

Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

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**Figure 2** Indirect ELISA of TNF- $\alpha$  (Ms) ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701135). Indirect ELISA was performed using various dilutions of TNF- $\alpha$  (Ms) ABfinity™ Recombinant Rabbit Monoclonal Antibody (Cat. no. 701135) to detect recombinant mouse TNF- $\alpha$  protein coated onto the plate. A non-linear regression analysis was performed (4 PL) and LOD and LOQ for the antibody was determined.