

## Datasheet: MCA1385

<b>Description:</b>	MOUSE ANTI HUMAN TNF ALPHA
<b>Specificity:</b>	TNF ALPHA
<b>Format:</b>	S/N
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	4C6-H6
<b>Isotype:</b>	IgM
<b>Quantity:</b>	2 ml

## 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 (1)	▪			Neat
Immunohistology - Frozen			▪	
Immunohistology - Paraffin	▪			
ELISA	▪			1/2 - 1/10
Immunoprecipitation	▪			
Western Blotting			▪	

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.

**(1)Membrane permeabilization is required for this application. Bio-Rad recommends the use of Leucoperm ([BUF09](#)) for this purpose.**

<b>Target Species</b>	Human
<b>Product Form</b>	Tissue Culture Supernatant - liquid
<b>Preparation</b>	Tissue Culture Supernatant containing 0.2M Tris/HCl pH7.4 and 5-10% foetal calf serum
<b>Preservative Stabilisers</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Immunogen</b>	115-130 AA sequence linked to thyroglobulin

**External Database  
Links**

**UniProt:**

[P01375](#)

[Related reagents](#)

**Entrez Gene:**

[7124](#)

TNF

[Related reagents](#)

**Synonyms**

TNFA, TNFSF2

**RRID**

AB\_322494

**Fusion Partners**

Spleen cells from immunized BALB/c mice were fused with cells of the SP2/0-Ag14 myeloma cell line

**Specificity**

**Mouse anti Human TNF alpha antibody clone 4C6-H6** recognizes human Tumor necrosis factor, also known as TNF alpha, Cachectin or Tumor necrosis factor ligand superfamily member 2. TNF $\alpha$  is a 233 amino acid ~22kDa type II transmembrane protein with a single potential glycosylation site (Uniprot [P01375](#): [Takakura-Yamamoto \*et al.\* 1996](#)).

Mouse anti Human TNF alpha antibody clone 4C6-H6 has been used successfully for the demonstration of TNF $\alpha$  expression in formalin fixed, paraffin embedded bone marrow biopsies from patients with Myelodysplastic syndrome ([Molnár \*et al.\* 2000](#)) ant has been used for evaluating the increase in TNF $\alpha$  expression seen in peripheral blood mononuclear cells from patients suffering from the autoinnmuse condition, Graves disease ([Quadbeck \*et al.\* 2006](#)).

**Flow Cytometry**

Use 10ul of the suggested working dilution to label 1x10<sup>6</sup> cells in 100ul.

**References**

1. Bebök Z *et al.* (1994) Prognostic relevance of transforming growth factor alpha (TGF-alpha) and tumor necrosis factor alpha (TNF-alpha) detected in breast cancer tissues by immunohistochemistry. [Breast Cancer Res Treat. 29 \(3\): 229-35.](#)
2. Molnár L *et al.* (2000) Detection of TNFalpha expression in the bone marrow and determination of TNFalpha production of peripheral blood mononuclear cells in myelodysplastic syndrome. [Pathol Oncol Res. 6 \(1\): 18-23.](#)
3. Togo, T. *et al.* (2001) Glial involvement in the degeneration process of Lewy body-bearing neurons and the degradation process of Lewy bodies in brains of dementia with Lewy bodies. [J Neurol Sci. 184: 71-5.](#)
4. Brown, H. *et al.* (1999) Cytokine expression in the brain in human cerebral malaria. [J Infect Dis. 180: 1742-6.](#)
5. Quadbeck, B. *et al.* (2006) Dysregulation of TNF/TNFR superfamily members: a systemic link between intra- and extrathyroidal manifestations in Graves' disease. [Scand J Immunol. 64: 523-30.](#)

**Storage**

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10055 available at: 10055: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10055.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10055.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgM (STAR138...) [Alk. Phos.](#)  
Human Anti Mouse IgM (HCA040...) [FITC](#)  
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)

### Recommended Negative Controls

[MOUSE IgM NEGATIVE CONTROL \(MCA692\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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](https://bio-rad-antibodies.com/datasheets)  
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