

Datasheet: MCA747

Description:	MOUSE ANTI HUMAN TNF ALPHA
Specificity:	TNF ALPHA
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	B-C7
Isotype:	IgG1
Quantity:	0.5 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	▪			
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. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Does not react with:Mouse
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	<0.1% Sodium Azide (NaN ₃)
Approx. Protein	IgG concentration 1.0 mg/ml

Concentrations

Immunogen Recombinant human TNF-alpha.

External Database Links

UniProt:

[P01375](#) [Related reagents](#)

Entrez Gene:

[7124](#) TNF [Related reagents](#)

Synonyms TNFA, TNFSF2

RRID AB_322495

Fusion Partners Spleen cells from immunized BALB/c mice were fused with cells of the mouse X63.Ag.8653 myeloma cell line.

Specificity **Mouse anti Human TNF alpha antibody, clone B-C7** recognizes human tumor necrosis factor, also known as Cachectin or Tumor necrosis factor ligand superfamily member 2. TNF α exists as a 233 amino acid membrane bound form, a single pass type II transmembrane protein which can be cleaved between residues 76 and 77 by ADAM17, also known as CD156b to yield the 157 amino acid soluble form of TNF α ([UniProt: P01375](#)).

Mouse anti Human TNF alpha antibody, clone B-C7 recognizes both natural and bacterially produced recombinant human TNF-alpha and has an affinity of Kd = 0.5nM. Mouse anti Human TNF alpha antibody, clone B-C7 demonstrates neutralising activity against human TNF-alpha. Removal of sodium azide is recommended prior to functional assays.

References

1. Musey, L. *et al.* (2003) Ontogeny and specificities of mucosal and blood human immunodeficiency virus type 1-specific CD8(+) cytotoxic T lymphocytes. [J Virol. 77 \(1\): 291-300.](#)
 2. Hamacher, J. *et al.* (2002) Tumor necrosis factor-alpha and angiostatin are mediators of endothelial cytotoxicity in bronchoalveolar lavages of patients with acute respiratory distress syndrome. [Am J Respir Crit Care Med. 166: 651-6.](#)
 3. Hmama, Z. *et al.* (1992) Monocyte cytokine secretion induced by chemically-defined derivatives of *Klebsiella pneumoniae*. [Clin Exp Immunol. 89: 104-9.](#)
 4. Limb, G.A. *et al.* (2002) Differential expression of matrix metalloproteinases 2 and 9 by glial Müller cells: response to soluble and extracellular matrix-bound tumor necrosis factor-alpha. [Am J Pathol. 160: 1847-55.](#)
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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.

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: 10040: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@550 , DyLight@650 , DyLight@680 , DyLight@800 , FITC , HRP
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: 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	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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
'M389730:210806'

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