

Datasheet: MCA1487EL

Description:	RAT ANTI MOUSE TNF ALPHA:Low Endotoxin
Specificity:	TNF ALPHA
Format:	Low Endotoxin
Product Type:	Monoclonal Antibody
Clone:	MP6-XT3
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 (1)	▪			
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			1ug/ml - 5ug/ml
Immunoprecipitation			▪	
Western Blotting	▪			
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.

(1)Membrane permeabilisation is required prior to staining in Flow Cytometry. We recommend the use of Leucoperm™ ([BUF09A](#)) for this purpose.

Target Species	Mouse
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	None present
Carrier Free	Yes
Endotoxin Level	<0.01EU/µg
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml

Immunogen	Recombinant murine TNF-alpha expressed in <i>E. coli</i> .
External Database Links	<p>UniProt: P06804 Related reagents</p> <p>Entrez Gene: 21926 Tnf Related reagents</p>
Synonyms	Tnfa, Tnfsf2
Specificity	<p>Rat anti Mouse TNF alpha antibody, clone MP6-XT3 recognizes mouse tumor necrosis factor alpha (TNF alpha), also known as TNFSF2. This 17 kDa cytokine is produced by monocytes, macrophages, neutrophils, NK cells and CD4+ T cells. TNF alpha forms dimers and trimers, and is also found as a 26 kDa integral membrane protein. Mouse TNF alpha has cytolytic activity against many tumor cell lines, and has an important immunoregulatory role.</p> <p>Rat anti Mouse TNF alpha antibody, clone MP6-XT3 is reported to neutralize the effects of mouse TNF alpha (Bauman et al. 2003).</p>
Flow Cytometry	Use 10µl of the suggested working dilution to label 1 x 10 ⁶ cells in 100µl.
References	<ol style="list-style-type: none"> 1. Abrams, J.S. <i>et al.</i> (1992) Strategies of anti-cytokine monoclonal antibody development: immunoassay of IL-10 and IL-5 in clinical samples. Immunol Rev. 127: 5-24. 2. Bauman, S.K. <i>et al.</i> (2003) Effects of tumor necrosis factor alpha on dendritic cell accumulation in lymph nodes draining the immunization site and the impact on the anticytotoxic cell-mediated immune response. Infect Immun. 71 (1): 68-74. 3. Hostager BS, & Bishop GA. (2002) Role of TNF receptor-associated factor 2 in the activation of IgM secretion by CD40 and CD120b. J Immunol. 168: 3318-22. 4. Huffnagle, G.B. <i>et al.</i> (1996) Afferent phase production of TNF-alpha is required for the development of protective T cell immunity to <i>Cryptococcus neoformans</i>. J Immunol. 157: 4529-36. 5. Reljic, R. <i>et al.</i> (2004) Mouse IgA inhibits cell growth by stimulating tumor necrosis factor-alpha production and apoptosis of macrophage cell lines. Int Immunol. 16 (4): 607-14.
Storage	<p>Store at -20°C only.</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 antibody. Should this product contain a precipitate we recommend microcentrifugation before use.</p>
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet documentation #10162 available at: 10162: https://www.bio-rad-antibodies.com/uploads/MSDS/10162.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®549 , DyLight®649 , DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP

Recommended Negative Controls

[RAT IgG1 NEGATIVE CONTROL:Low Endotoxin \(MCA1211EL\)](#)

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