

Datasheet: MCA1385

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

	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.

Target Species	Human
Product Form	Tissue Culture Supernatant - liquid
Preparation	Tissue Culture Supernatant containing 0.2M Tris/HCl pH7.4 and 5-10% foetal calf serum
Preservative Stabilisers	0.09% Sodium Azide
Immunogen	115-130 AA sequence linked to thyroglobulin

External Database Links

UniProt:

[P01375](#)

[Related reagents](#)

Entrez Gene:

[7124](#)

TNF

[Related reagents](#)

Synonyms	TNFA, TNFSF2
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. TNFα 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 TNFα expression in formalin fixed, paraffin embedded bone marrow biopsies from patients with Myelodysplastic syndrome (Molnár et al. 2000) and has been used for evaluating the increase in TNFα expression seen in peripheral blood mononuclear cells from patients suffering from the autoimmune condition, Graves disease (Quadbeck et al. 2006).
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
References	1. Bebök Z <i>et al.</i> (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 <i>et al.</i> (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. <i>et al.</i> (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. <i>et al.</i> (1999) Cytokine expression in the brain in human cerebral malaria. J Infect Dis. 180: 1742-6. 5. Quadbeck, B. <i>et al.</i> (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	Store at +4°C or at -20°C if preferred. This product should be stored undiluted. 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.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet Documentation #10055 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10055.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgM (STAR138...) [Alk. Phos.](#)
Goat Anti Mouse IgM (STAR86...) [RPE](#)
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)
Human Anti Mouse IgM (HCA040...) [FITC](#), [HRP](#)

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