



# Rabbit (polyclonal) Anti-Mouse Tumor Necrosis Factor- $\alpha$

## PRODUCT ANALYSIS SHEET

<b>Catalog Number:</b>	AMC3012
<b>Lot Number:</b>	See product label
<b>Expiration Date:</b>	See product label.
<b>Contents:</b>	0.5 mg rabbit immunoglobulins, lyophilized from 0.5 mL solution containing phosphate buffered saline with 125 mM trehalose.
<b>Reconstitution:</b>	Reconstitute with 0.5 mL sterile distilled water.
<b>Immunogen:</b>	Recombinant mouse TNF- $\alpha$ produced in <i>E. coli</i>
<b>Purification:</b>	Immunoglobulins were sequentially purified by ammonium sulfate precipitation, protein A affinity chromatography, and immunoaffinity chromatography (sepharose column with immobilized recombinant mouse TNF- $\alpha$ ). Sterile filtered (0.22 $\mu$ m) prior to lyophilization.
<b>Specificity:</b>	Neutralizes both natural and recombinant mouse TNF- $\alpha$ . This antibody preparation shows a high degree of cross-neutralizing activity with rat TNF- $\alpha$ .
<b>Activity:</b>	$\geq 10^5$ neutralizing units/mg protein. Neutralizing capacity has been determined by a cytotoxicity assay in which one unit of TNF- $\alpha$ is assumed to correspond to 50 pg.
<b>Quantitation:</b>	0.5 mg/vial as determined by the Bio-Rad protein assay using bovine IgG as the standard.
<b>Applications:</b>	This antibody is suitable for use in neutralization studies, ELISA, and Western blotting.
<b>Storage:</b>	Store the lyophilized preparation at 2-8°C. Following reconstitution, the preparation is stable for two weeks at 2-8°C. For maximum stability, apportion the reconstituted antibody into working aliquots and store at -20°C. Repeated freeze/thaw cycles should be avoided to prevent denaturing the antibody.

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

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PIAMC3012

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**References:**

Morgan C.D., K.C. Mills, D.L. Lefkowitz, and S.S. Lefkowitz (1991) An improved colorimetric assay for tumor necrosis factor using WEHI 164 cells cultured on novel microtiter plates. *J. Immunol. Methods* 145:259-262.

Bhat, N.R., P. Zhang, J.C. Lee, and E.L. Hogan (1998) Extracellular signal-regulated kinase and p38 subgroups of mitogen-activated protein kinases regulate inducible nitric oxide synthase and tumor necrosis factor-alpha gene expression in endotoxin-stimulated primary glial cultures. *J. Neuroscience* 18(5):1633-1641.

Joosten, L.A.B., F.A.J. van de Loo, E. Lubberts, M.M.A. Helsen, M.G. Netea, J.W.M. van der Meer, C.A. Dinarello and W.B. van den Berg (2000) An IFN-gamma-independent proinflammatory role of IL-18 in murine streptococcal cell wall arthritis. *J. Immunol.* 165:6553-6558. (These authors used AMC3012 in neutralization studies.)

Roos, A., E.J. Schilder-Tol, J.J. Weening, and J. Aten (1998) Strong expression of CD134 (OX40), a member of the TNF receptor family, in a T helper 2-type cytokine environment. *J. Leukoc. Biol.* 64(4):503-510.

Segura, M., J. Stankova, and M. Gottschalk (1999) Heat-killed *Streptococcus suis* capsular type 2 strains stimulate tumor necrosis factor alpha and interleukin-6 production by murine macrophages. *Infection and Immunity* 67:4646-4654. (These authors used AMC3012 in neutralization studies.)

Tyor, W.R., N. Avgeropoulos, G. Ohlandt, and E.L. Hogan (2002) Treatment of spinal cord impact injury in the rat with transforming growth factor-beta. *J. Neurol. Sci.* 200(1-2):33-41. (These authors used AMC3012 in immunohistochemistry.)

Wada, R., C.J. Tiffit, and R.L. Proia (2000) Microglial activation precedes acute neurodegeneration in Sandhoff disease and is suppressed by bone marrow transplantation. *Proc. Nat'l. Acad. Sci.* 97:19054-19059.

Zhang-Hoover, J., A. Sutton, N. van Rooijen, and J. Stein-Streilein (2000) A critical role for alveolar macrophages in elicitation of pulmonary immune fibrosis. *Immunology* 101 (4):501-511.

**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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