

**DESCRIPTION**

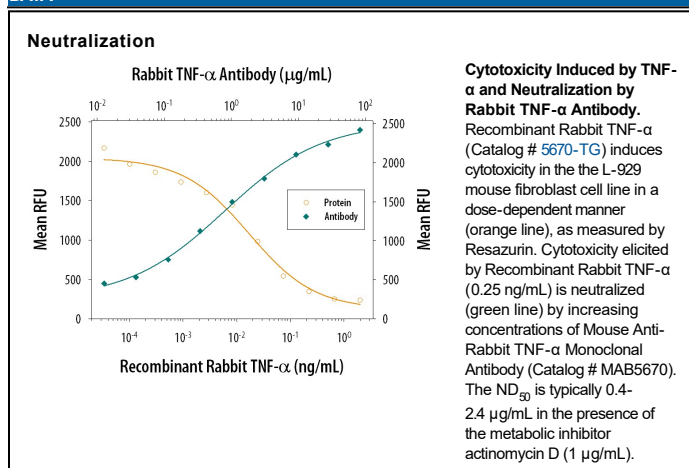
<b>Species Reactivity</b>	Rabbit
<b>Specificity</b>	Detects rabbit TNF- $\alpha$ in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant TNF- $\alpha$ from cotton rat, cat, cow, dog, guinea pig, horse, human, mouse, pig, rat, or rhesus is observed. No cross-reactivity with recombinant human (rh) 4-1BB Ligand, rhAPRIL, rhBAFF, rhEDA, rhEDA-A2, rhFas Ligand, rhGITR Ligand, rhLIGHT, rhLymphotoxin $\alpha$ 1 $\beta$ 2, rhLymphotoxin $\alpha$ 2 $\beta$ 1, rhOX40 Ligand, rhTRAIL, rhTRANCE, rhTWEAK, rhVEG1, recombinant mouse (rm) 4-1BB Ligand, rmBAFF, rmFas Ligand, rmGITR Ligand, rmLIGHT, rmOX40 Ligand, rmTRAIL, rmTRAIL-2L, rmTRANCE, or rmTWEAK is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>2A</sub> Clone # 610331
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant rabbit TNF- $\alpha$ Leu79-Leu234 Accession # NP_001075732
<b>Endotoxin Level</b>	<0.10 EU per 1 $\mu$ g of the antibody by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 $\mu$ m filtered solution in PBS.

**APPLICATIONS**

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

<b>Neutralization</b>	Measured by its ability to neutralize TNF- $\alpha$ -induced cytotoxicity in the L-929 mouse fibroblast cell line. Matthews, N. and M. L. Neale (1987) in <i>Lymphokines and Interferons, A Practical Approach</i> . Clemens, M. J. <i>et al.</i> (eds): IRL Press. 221. The Neutralization Dose (ND <sub>50</sub> ) is typically 0.4-2.4 $\mu$ g/mL in the presence of 0.25 ng/mL Recombinant Rabbit TNF- $\alpha$ and the metabolic inhibitor actinomycin D (1 $\mu$ g/mL).
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**DATA**



**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

**BACKGROUND**

Tumor necrosis factor (TNF- $\alpha$ ), also known as cachectin and TNFSF2, is the prototypic ligand of the TNF superfamily and family. The 26 kDa type II transmembrane protein is assembled intracellularly to form a noncovalently linked homotrimer. Rabbit TNF- $\alpha$  is 235 amino acids (aa) in length and contains a 35 aa cytoplasmic domain, a 21 aa transmembrane region, and a 179 extracellular domain (ECD). Cleavage of membrane bound TNF- $\alpha$  by TACE/ADAM17 releases a 55 kDa soluble trimeric form of TNF- $\alpha$ . Rabbit TNF- $\alpha$  is 79% and 78% aa identical to human and mouse TNF- $\alpha$ , respectively. TNF- $\alpha$  is produced by several lymphoid cells as well as by astrocytes, endothelial cells, and smooth muscle cells. TNF- $\alpha$  binds TNF RI and TNF RII present on virtually all cell types where it triggers the activation of multiple signal transduction pathways and modulates the expression of a wide variety of genes.