

DESCRIPTION

Species Reactivity	Rabbit
Specificity	Detects rabbit TNF- α in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant TNF- α 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 L
Source	Monoclonal Mouse IgG _{2A} Clone # 610331
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	<i>E. coli</i> -derived recombinant rabbit TNF- α Leu79-Leu234 Accession # NP_001075732
Conjugate	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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.

Neutralization Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Tumor necrosis factor (TNF- α), 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- α 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- α by TACE/ADAM17 releases a 55 kDa soluble trimeric form of TNF- α . Rabbit TNF- α is 79% and 78% aa identical to human and mouse TNF- α , respectively. TNF- α is produced by several lymphoid cells as well as by astrocytes, endothelial cells, and smooth muscle cells. TNF- α 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.

PRODUCT SPECIFIC NOTICES

This product is provided under an agreement between Life Technologies Corporation and R&D Systems, Inc, and the manufacture, use, sale or import of this product is subject to one or more US patents and corresponding non-US equivalents, owned by Life Technologies Corporation and its affiliates. The purchase of this product conveys to the buyer the non-transferable right to use the purchased amount of the product and components of the product only in research conducted by the buyer (whether the buyer is an academic or for-profit entity). The sale of this product is expressly conditioned on the buyer not using the product or its components (1) in manufacturing; (2) to provide a service, information, or data to an unaffiliated third party for payment; (3) for therapeutic, diagnostic or prophylactic purposes; (4) to resell, sell, or otherwise transfer this product or its components to any third party, or for any other commercial purpose. Life Technologies Corporation will not assert a claim against the buyer of the infringement of the above patents based on the manufacture, use or sale of a commercial product developed in research by the buyer in which this product or its components was employed, provided that neither this product nor any of its components was used in the manufacture of such product. For information on purchasing a license to this product for purposes other than research, contact Life Technologies Corporation, Cell Analysis Business Unit, Business Development, 29851 Willow Creek Road, Eugene, OR 97402, Tel: (541) 465-8300. Fax: (541) 335-0354.