

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 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 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.

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