

## Rat TNF alpha ELISA Kit | TNF elisa kit

Rat TNF alpha ELISA Kit

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| CATALOG #<br><b>AAA17861</b> | REACTIVITY<br><b>Rat</b> | APPLICATIONS<br><b>ELISA</b> |
|------------------------------|--------------------------|------------------------------|

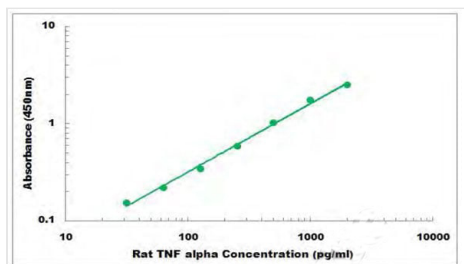
### PRODUCT SYNONYMS

TNF alpha; Rat TNF alpha ELISA Kit; TNFA; TNFSF2; Tumor necrosis factor; Cachectin; TNF-alpha; Tumor necrosis factor ligand superfamily member 2; TNF-a; TNF elisa kit

### PRODUCT SPECIFICATIONS

|                                           |                                                                                                                                                                                                |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                | Rat                                                                                                                                                                                            |
| Specificity                               | The Rat TNF alpha ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Rat TNF alpha proteins within the range of 31.3 pg/ml - 2000 pg/ml. |
| Sequence Length                           | 235                                                                                                                                                                                            |
| Samples                                   | Culture Supernatants, Serum, Plasma, Tissue Homogenates                                                                                                                                        |
| Sensitivity                               | < 15 pg/ml                                                                                                                                                                                     |
| Applicable Applications for TNF elisa kit | ELISA (Sandwich ELISA)                                                                                                                                                                         |
| Preparation and Storage                   | Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.                                                                                    |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
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| Related Product Information for TNF elisa kit | <p>Background: Tumor necrosis factor-alpha (TNF-alpha, or TNF) is secreted by macrophages in response to inflammation, infection and cancer. Human Tumor Necrosis Factor (TNF) and Lymphotoxin (TNF-beta) are cytotoxic proteins which have similar biological activities and share 30% amino acid homology. TNF-alpha is produced by monocytes, which can stimulate endothelial cells to produce the multilineage growth factor granulocyte-macrophage colony-stimulating factor and extend the role of this immunoregulatory protein to the regulation of hematopoiesis in vitro. TNF is a soluble protein that causes damage to tumor cells but has no effect on normal cells.</p> <p>Principle of the Assay: The Rat TNF alpha ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Rat TNF alpha in Cell Culture Supernatants, Serum, Plasma, Tissue Homogenates. This assay employs an antibody specific for Rat TNF alpha coated on a 96-well plate. Standards and samples are pipetted into the wells and TNF alpha present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Rat TNF alpha antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of TNF alpha bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                     |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 6981662                                                                                                                                                             |
| NCBI GeneID                      | 24835                                                                                                                                                               |
| NCBI Accession #                 | NP_036807.1                                                                                                                                                         |
| NCBI GenBank Nucleotide #        | NM_012675.3                                                                                                                                                         |
| UniProt Accession #              | P16599; Q6EE11; Q9JI26; Q9JI27                                                                                                                                      |
| Molecular Weight                 | 25,806 Da                                                                                                                                                           |
| NCBI Official Full Name          | tumor necrosis factor                                                                                                                                               |
| NCBI Official Synonym Full Names | tumor necrosis factor                                                                                                                                               |
| NCBI Official Symbol             | Tnf                                                                                                                                                                 |
| NCBI Official Synonym Symbols    | Tnfa; RATTNF; TNF-alpha                                                                                                                                             |
| NCBI Protein Information         | tumor necrosis factor; cachectin; tumor necrosis factor alpha; tumor necrosis factor (TNF superfamily, member 2); tumor necrosis factor ligand superfamily member 2 |
| UniProt Protein Name             | Tumor necrosis factor                                                                                                                                               |
| UniProt Gene Name                | Tnf                                                                                                                                                                 |
| UniProt Synonym Gene Names       | Tnfa; Tnfsf2; TNF-a; NTF; ICD1; ICD2                                                                                                                                |
| UniProt Entry Name               | TNFA_RAT                                                                                                                                                            |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.