

## Rat Tumor Necrosis Factor Alpha (TNFa) ELISA Kit | TNFa elisa kit

Rat Tumor Necrosis Factor Alpha (TNFa) High Sensitivity ELISA Kit

CATALOG #  
**AAA149011**

REACTIVITY  
**Rat**

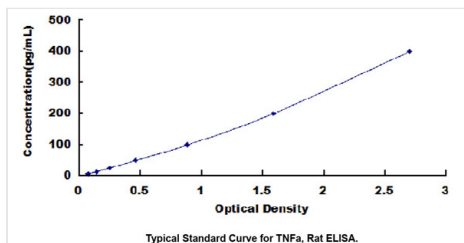
### PRODUCT SYNONYMS

Tumor Necrosis Factor Alpha (TNFa); Rat Tumor Necrosis Factor Alpha (TNFa) High Sensitivity ELISA Kit; DIF; TNF-A; TNFSF2; Cachectin; Tumor Necrosis Factor Ligand Superfamily Member 2; TNFa elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Specificity             | This assay has high sensitivity and excellent specificity for detection of TNFa. No significant cross-reactivity or interference between TNFa and analogues was observed.                                                                                                                                                                                                                                                                                                                  |
| Sequence Length         | 235                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Assay Type              | Quantitative Sandwich                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Samples                 | Rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids                                                                                                                                                                                                                                                                                                                                                                                   |
| Detection Range         | 6.25-400pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Sensitivity             | < 2.83pg/mL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Intra-assay Precision   | Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level TNFa were tested 20 times on one plate, respectively. Intra-Assay: CV<10%                                                                                                                                                                                                                                                                                                                     |
| Inter-assay Precision   | Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level TNFa were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%                                                                                                                                                                                                                                                                                   |
| Preparation and Storage | The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.<br>To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end. |

### IMAGES



Standard Curve (Sample)

## ADDITIONAL INFORMATION

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|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for TNFa elisa kit | <p>Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to TNFa. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to TNFa. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain TNFa, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm <math>\pm</math> 10nm. The concentration of TNFa in the samples is then determined by comparing the O.D. of the samples to the standard curve.</p> <p>Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of TNFa in rat serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.</p> |
| Product Categories/Family for TNFa elisa kit   | Cytokine; Tumor immunity; Infection immunity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

## 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                |
| UniProt Protein Name             | Tumor necrosis factor                |
| UniProt Gene Name                | <b>Tnf</b>                           |
| UniProt Synonym Gene Names       | Tnfa; Tnfsf2; TNF-a; NTF; ICD1; ICD2 |

**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.

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Online datasheet: <https://www.aaabiotech.com/rat-elisa-kits/tumor-necrosis-factor-alpha-tnfa/149011>