# abcam

### **Product datasheet**

## Human TNF alpha ELISA Kit ab100654

#### <u>14 References</u> 5 图像

概试

| 慨业            |  |       |            |
|---------------|--|-------|------------|
| 产品名称          | 人TNF alpha ELISA试剂盒  |       |            |
| 检 <b>测方法</b>  | Colorimetric   |       |            |
| 样品类型          | Cell culture supernatant, Serum, Plasma  |       |            |
| 检测类型          | Sandwich (quantitative)  |       |            |
| 灵敏度           | < 30 pg/ml   |       |            |
| 范围            | 24.58 pg/ml - 6000 pg/ml   |       |            |
| 回收率           | 94 %   |       |            |
|               |  |       | 特定样本回收率    |
|               | 样品类型   | 平均%   | 范围         |
|               | Cell culture supernatant   | 96.43 | 84% - 104% |
|               | Serum  | 94.53 | 82% - 103% |
|               | Plasma   | 91.92 | 80% - 102% |
| 实 <b>验步</b> 骤 | Multiple steps standard assay  |       |            |
| 种属反应性         | 与反应: Human   |       |            |
| 产 <b>品概述</b>  | Abcam's TNF alpha Human ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro |       |            |

Abcam's TNF alpha Human ELISA (Enzyme-Linked Immunosorbent Assay) kit is an *in vitro* enzyme-linked immunosorbent assay for the quantitative measurement of Human TNF alpha in serum, plasma and cell culture supernatants. (Human TNF alpha concentration is pretty low in normal serum/plasma, it may not be detected in this assay).

This assay employs an antibody specific for Human 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-Human 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. Get higher sensitivity in only 90 minutes with Human TNF alpha ELISA Kit (ab181421) from our SimpleStep ELISA<sup>®</sup> range.

| 说 <b>明</b> | Optimization may be required with urine samples. |
|------------|--|
| 平台         | Microplate                                       |

#### 性能

**存放**说明

Store at -20°C. Please refer to protocols.

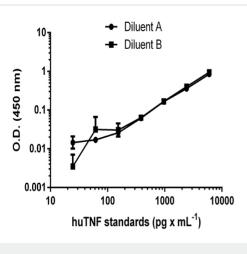
| 组 <b>件</b>   | 1 x 96 tests |
|--|--------------|
| 20X Wash Buffer                                    | 1 x 25ml     |
| 5X Assay Diluent B                                 | 1 x 15ml     |
| 600X HRP-Streptavidin Concentrate                  | 1 x 200µl    |
| Assay Diluent A                                    | 1 x 30ml     |
| Biotinylated anti-Human TNF alpha                  | 2 vials      |
| Recombinant Human TNF alpha Standard (lyophilized) | 2 vials      |
| Stop Solution                                      | 1 x 8ml      |
| TMB One-Step Substrate Reagent                     | 1 x 12ml     |
| TNF alpha Microplate (12 x 8 wells)                | 1 unit       |

| 功能                     | Cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFBR. It is mainly secreted by macrophages and can induce cell death of certain tumor cell lines. It is potent pyrogen causing fever by direct action or by stimulation of interleukin-1 secretion and is implicated in the induction of cachexia, Under certain conditions it can stimulate cell proliferation and induce cell differentiation.   |
|------------------------|--|
| 疾病相关                   | Genetic variations in TNF are a cause of susceptibility psoriatic arthritis (PSORAS)<br>[MIM:607507]. PSORAS is an inflammatory, seronegative arthritis associated with psoriasis. It is<br>a heterogeneous disorder ranging from a mild, non-destructive disease to a severe, progressive,<br>erosive arthropathy. Five types of psoriatic arthritis have been defined: asymmetrical oligoarthritis<br>characterized by primary involvement of the small joints of the fingers or toes; asymmetrical<br>arthritis which involves the joints of the extremities; symmetrical polyarthritis characterized by a<br>rheumatoidlike pattern that can involve hands, wrists, ankles, and feet; arthritis mutilans, which is a<br>rare but deforming and destructive condition; arthritis of the sacroiliac joints and spine (psoriatic<br>spondylitis). |
| 序列相似性                  | Belongs to the tumor necrosis factor family.   |
| <b>翻</b> 译后 <b>修</b> 饰 | The soluble form derives from the membrane form by proteolytic processing.<br>The membrane form, but not the soluble form, is phosphorylated on serine residues.<br>Dephosphorylation of the membrane form occurs by binding to soluble TNFRSF1A/TNFR1.  |

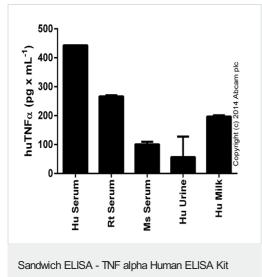
#### 细胞定位

O-glycosylated; glycans contain galactose, N-acetylgalactosamine and N-acetylneuraminic acid. Secreted and Cell membrane.

图片

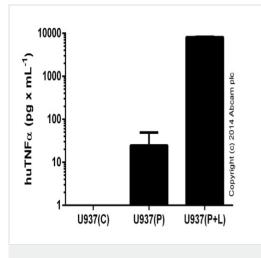


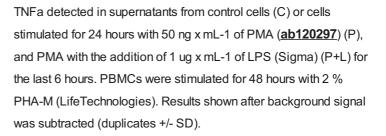
Sandwich ELISA - TNF alpha Human ELISA Kit (ab100654) Standard curve of hulL-8 with background signal subtracted (duplicates; +/- SD).



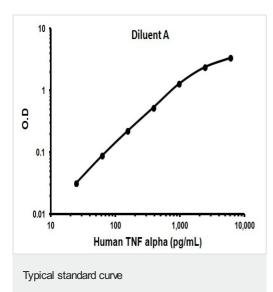
(ab100654)

huTNFa measured in biological fluids, background signal subtracted (duplicates +/- SD).

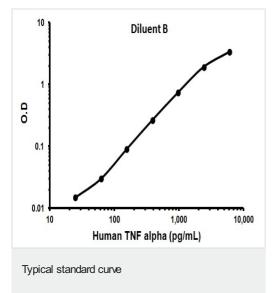




Sandwich ELISA - TNF alpha Human ELISA Kit (ab100654)



#### Representative standard curve using ab100654



#### Representative standard curve using ab100654

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