

**Client**  
**Gurugram**  
Pathkind Diagnostics Pvt. Ltd.  
Plot No. 55-56, Udhog Vihar Ph-IV, Gurugram - 122015

**Processed By**  
**Pathkind Diagnostics Pvt. Ltd.**  
Plot No. 55-56, Udhog Vihar Ph-IV, Gurugram - 122015

|                         |                  |                            |                       |
|-------------------------|------------------|----------------------------|-----------------------|
| <b>Name</b>             | : Mr. SE221      | <b>Billing Date</b>        | : 07/07/2023 12:36:26 |
| <b>Age</b>              | : 35 Yrs         | <b>Sample Collected on</b> | : 10/07/2023 10:01:31 |
| <b>Sex</b>              | : Male           | <b>Sample Received on</b>  | : 10/07/2023 11:02:13 |
| <b>P. ID No.</b>        | : P1000100013115 | <b>Report Released on</b>  | : 20/07/2023 17:05:49 |
| <b>Accession No</b>     | : 10002305171    | <b>Barcode No.</b>         | : 10002305171-01      |
| <b>Referring Doctor</b> | : Self           |                            |                       |
| <b>Referred By</b>      | :                | <b>Ref no.</b>             | :                     |

### Report Status - Final

| Test Name | Result | Biological Ref. Interval | Unit |
|-----------|--------|--------------------------|------|
|-----------|--------|--------------------------|------|

### BIOCHEMISTRY

**# Tumor Necrosis Factor (TNF), Alpha** 1.30 <2.20 pg/mL

Sample: Serum  
Method: ELISA

### Tumor Necrosis Factor (TNF), Alpha

#### Comments

**TNF-  $\alpha$**  is a proinflammatory cytokine with an ability to kill tumor cells and induce hemorrhagic necrosis. Mainly macrophages and monocytes produce TNF but activated T cells, mast cells and keratinocytes may also produce it to a lesser extent. TNF $\alpha$  has a number of effects including apoptosis, adhesion and cellular trafficking, angiogenesis, myocyte proliferation, fibrosis, phagocytosis, cytokine production, leucocyte/macrophage function, inflammation and tumor control.

#### Effect of TNF - $\alpha$ on tumor control

1. Direct cytotoxic effect on tumor cells, but not on normal cells
2. Modification of vasculature to enhance migration of lymphocytes into tumors
3. Stimulation of immune response by activating cells that mediate antitumor immunity

#### Therapeutic applications

1. Certain diseases related directly to excessive TNF $\alpha$  production are Septic shock, Graft versus host disease & Lupus nephritis. These diseases may be amenable to treatment with anti TNF  $\alpha$  antibodies or antiinflammatory agents that reduce TNF production
2. Chemotherapy of certain tumors like Melanomas and advanced neoplastic disease have shown limited success on administration of TNF $\alpha$ .

\*\* End of Report \*\*



**Dr. Aarti Khanna Nagpal**

DNB (Pathology)  
Senior Consultant

10002305171 Mr. SE221

