

ARG80120 Human TNF alpha ELISA Kit

Package: 96 wells
Store at: 4°C

Component

| Cat. No. | Component Name | Package | Temp |
|--------------|---------------------------------|---------------|---|
| ARG80120-001 | Antibody-coated microplate | 8 X 12 strips | 4°C. Unused strips should be sealed tightly in the air-tight pouch. |
| ARG80120-002 | Standard (Lyophilized) | 3 X 1 ng/vial | 4°C |
| ARG80120-003 | Standard diluent buffer | 20 ml | 4°C |
| ARG80120-004 | Antibody conjugate concentrate | 400 µl | 4°C |
| ARG80120-005 | Antibody diluent buffer | 16 ml | 4°C |
| ARG80120-006 | HRP-Streptavidin concentrate | 400 µl | 4°C (Protect from light) |
| ARG80120-007 | HRP-Streptavidin diluent buffer | 16 ml | 4°C |
| ARG80120-008 | 20X Wash buffer | 50 ml | 4°C |
| ARG80120-009 | TMB substrate | 12ml | 4°C (Protect from light) |
| ARG80120-010 | STOP solution | 12ml | 4°C |
| ARG80120-011 | Plate sealer | 4 strips | Room temperature |

Summary

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| Product Description | ARG80120 Human TNF alpha ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human TNF alpha in serum, plasma and cell culture supernatants. |
| Tested Reactivity | Hu |
| Tested Application | ELISA |
| Specificity | This ELISA kit suitable for soluble human TNF-alpha detection, and no significant cross-reactivity or interference with Human TNF- beta, TNF RI, TNF RII@mouse TNF- alpha, TNF RI, TNF RII@porcine TNF-alpha@rat TNF- alpha |
| Target Name | TNF alpha |
| Conjugation | HRP |
| Conjugation Note | Substrate: TMB and read at 450 nm |
| Sensitivity | 7.8 pg/ml |
| Sample Type | Serum, plasma and cell culture supernatants. |

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| Standard Range | 15.6 - 1000 pg/ml |
| Sample Volume | 100 µl |
| Precision | CV: |
| Alternate Names | Tumor necrosis factor ligand superfamily member 2; DIF; Cachectin; ICD2; ICD1; N-terminal fragment; TNF-a; TNFA; TNFSF2; TNF-alpha; Tumor necrosis factor; NTF |

Application Instructions

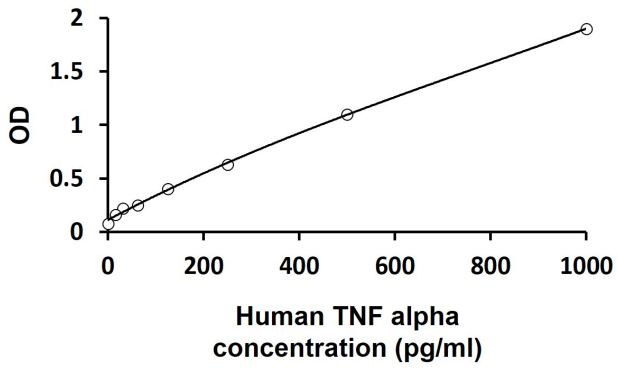
| | |
|------------|---------|
| Assay Time | 4 hours |
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Properties

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| Form | 96 well |
| Storage instruction | Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

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|----------------|--|
| Gene Symbol | TNF |
| Gene Full Name | tumor necrosis factor |
| Background | This gene encodes a multifunctional proinflammatory cytokine that belongs to the tumor necrosis factor (TNF) superfamily. This cytokine is mainly secreted by macrophages. It can bind to, and thus functions through its receptors TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. This cytokine is involved in the regulation of a wide spectrum of biological processes including cell proliferation, differentiation, apoptosis, lipid metabolism, and coagulation. This cytokine has been implicated in a variety of diseases, including autoimmune diseases, insulin resistance, and cancer. Knockout studies in mice also suggested the neuroprotective function of this cytokine. [provided by RefSeq, Jul 2008] |
| Function | Cytokine that binds to TNFRSF1A/TNFR1 and TNFRSF1B/TNFR. 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. Impairs regulatory T-cells (Treg) function in individuals with rheumatoid arthritis via FOXP3 dephosphorylation. Upregulates the expression of protein phosphatase 1 (PP1), which dephosphorylates the key 'Ser-418' residue of FOXP3, thereby inactivating FOXP3 and rendering Treg cells functionally defective (PubMed:23396208). The TNF intracellular domain (ICD) form induces IL12 production in dendritic cells. [UniProt] |
| Highlight | Related products: TNF alpha antibodies: TNF alpha ELISA Kits: TNF alpha Duos / Panels: Related news: A new role of fat – factory of circulating miRNAs Comprehensive HMGB1 ELISA Kits LKB1 deficiency in T cells promotes gut tumors |
| Resrarch Area | Cancer kit; Cell Biology and Cellular Response kit; Immune System kit; Metabolism kit; Signaling Transduction kit |



ARG80120 Human TNF alpha ELISA Kit standard curve image

ARG80120 Human TNF alpha ELISA Kit results of a typical standard run with optical density reading at 450 nm.