

## ARG82264 Chicken TNF alpha ELISA Kit

Package: 96 wells  
Store at: 4°C

### Summary

Product Description	ARG82264 Chicken TNF alpha ELISA Kit is an Enzyme Immunoassay kit for the quantification of Chicken TNF alpha in serum and plasma.
Tested Reactivity	Chk
Tested Application	ELISA
Specificity	The following recombinant chicken proteins were tested and exhibited no cross-reactivity: BMP2, BMP4, IL1 beta, IL2, IL4, IL5, IL6, IL8, IL10, IL12, IL15, IFN gamma, TGF beta 1, TGF beta 2, TGF beta 3, TLR1, TLR2 and TLR3.
Target Name	TNF alpha
Conjugation	HRP
Conjugation Note	Read at 450 nm.
Sensitivity	17.5 pg/ml
Sample Type	Serum and plasma.
Standard Range	35 - 2200 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 7% Inter-Assay CV: 9%
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	~ 3 hours
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### Properties

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

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. Key mediator of cell death in the anticancer action of BCG-stimulated neutrophils in combination with DIABLO/SMAC mimetic in the RT4v6 bladder cancer cell line.

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](#); [TNF alpha recombinant proteins](#);

Related news:

[HMGB1 in inflammation](#)

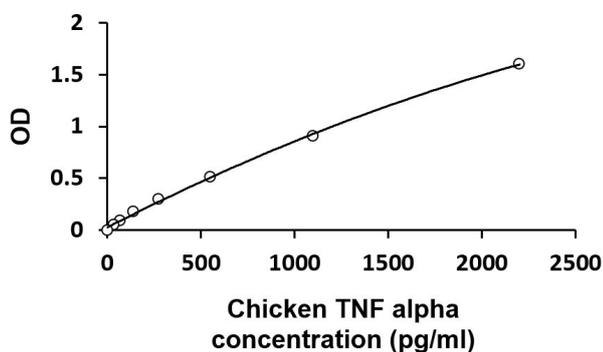
[Inflammatory Cytokines](#)

New ELISA data calculation tool:

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## Images

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ARG82264 Chicken TNF alpha ELISA Kit standard curve image

ARG82264 Chicken TNF alpha ELISA Kit results of a typical standard run with optical density reading at 450 nm.