

Product datasheet

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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

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

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functions through its receptors TNFRSF1A/TNFR1 and TNFRSF1B/TNFBR. 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/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. 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]

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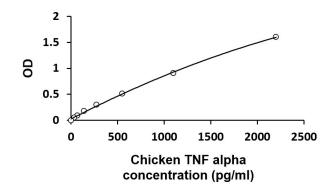
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Images



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.