

Product datasheet

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ARG82003 Chicken TGF beta 1 ELISA Kit

Package: 96 wells Store at: 4°C

Summary

Product Description ARG82003 Chicken TGF beta 1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Chicken

TGF beta 1 in serum, plasma and cell culture supernatants.

Tested Reactivity Chk

Tested Application ELISA

Specificity The following recombinant Chicken proteins prepared at 10 ng/ml were tested and exhibited no cross-

reactivity or interference: IL1 beta, IL2, IL4, IL5, IL6, IL8, IL10, IL15, IFN gamma, TLR1, TLR2, TNF alpha.

Target Name TGF beta 1

Conjugation HRP

Conjugation Note Read at 450 nm.

Sensitivity 6 pg/ml

Sample Type Serum, plasma and cell culture supernatants.

Standard Range 31 - 2000 pg/ml

Sample Volume 100 µl

Precision Intra-Assay CV: 8%; Inter-Assay CV: 11%

Alternate Names TGFB; DPD1; TGFbeta; CED; Transforming growth factor beta-1; LAP; TGF-beta-1

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 TGFB1

Gene Full Name transforming growth factor, beta 1

Background

This gene encodes a member of the transforming growth factor beta (TGFB) family of cytokines, which

are multifunctional peptides that regulate proliferation, differentiation, adhesion, migration, and other functions in many cell types. Many cells have TGFB receptors, and the protein positively and negatively regulates many other growth factors. The secreted protein is cleaved into a latency-associated peptide

(LAP) and a mature TGFB1 peptide, and is found in either a latent form composed of a TGFB1

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homodimer, a LAP homodimer, and a latent TGFB1-binding protein, or in an active form composed of a TGFB1 homodimer. The mature peptide may also form heterodimers with other TGFB family members. This gene is frequently upregulated in tumor cells, and mutations in this gene result in Camurati-Engelmann disease.[provided by RefSeq, Oct 2009]

Function

Multifunctional protein that controls proliferation, differentiation and other functions in many cell types. Many cells synthesize TGFB1 and have specific receptors for it. It positively and negatively regulates many other growth factors. It plays an important role in bone remodeling as it is a potent stimulator of osteoblastic bone formation, causing chemotaxis, proliferation and differentiation in committed osteoblasts. Can promote either T-helper 17 cells (Th17) or regulatory T-cells (Treg) lineage differentiation in a concentration-dependent manner. At high concentrations, leads to FOXP3-mediated suppression of RORC and down-regulation of IL-17 expression, favoring Treg cell development. At low concentrations in concert with IL-6 and IL-21, leads to expression of the IL-17 and IL-23 receptors, favoring differentiation to Th17 cells. [UniProt]

Highlight Related products:

TGF beta antibodies; TGF beta ELISA Kits; TGF beta recombinant proteins;

New ELISA data calculation tool: Simplify the ELISA analysis by GainData

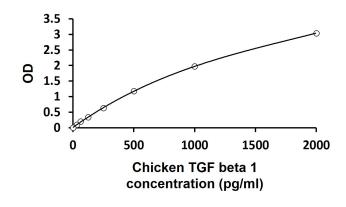
PTM Glycosylated.

The precursor is cleaved into mature TGF-beta-1 and LAP, which remains non-covalently linked to

mature TGF-beta-1 rendering it inactive. [UniProt]

Cellular Localization Secreted, extracellular space, extracellular matrix. [UniProt]

Images



ARG82003 Chicken TGF beta 1 ELISA Kit standard curve image

ARG82003 Chicken TGF beta 1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.