

Product datasheet

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ARG83158 Canine TGF Beta 1 ELISA Kit

Package: 96 wells Store at: 4°C

Summary

Product Description ARG83158 Canine TGF Beta 1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Canine in

Serum, Plasma, Urine and Cell culture supernatants.

Tested Reactivity Dog **Tested Application ELISA**

Specificity There is no detectable cross-reactivity with other relevant proteins.

Target Name TGF beta 1

Conjugation HRP

Conjugation Note Substrate: TMB and read at 450 nm.

Sensitivity 2 pg/ml

Detection Range 15.6 pg/ml - 1,000 pg/ml

Sample Type Serum, Plasma, Urine and Cell culture supernatants

Precision Intra-Assay CV: 4.2%

Inter-Assay CV: 5.9%

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

Application Instructions

Assay Time ~ 5 hours

Properties

96 well Form

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.

For laboratory research only, not for drug, diagnostic or other use. Note

Bioinformation

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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 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. arigo, nuts about antibodies

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 beta1 antibodies; TGF beta1 ELISA Kits;

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

Research Area Cancer kit; Cell Biology and Cellular Response kit; Developmental Biology kit; Metabolism kit; Signaling

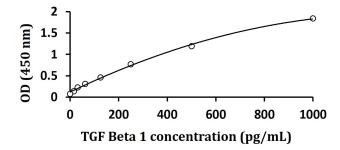
Transduction kit

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.

Images



ARG83158 Canine TGF Beta 1 ELISA Kit standard curve image

ARG83158 Canine TGF Beta 1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.