

Canine Transforming Growth Factor Beta-1 High-Sensitivity ELISA Kit | TGFB1 elisa kit

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CATALOG #
AAA37878

REACTIVITY
Canine

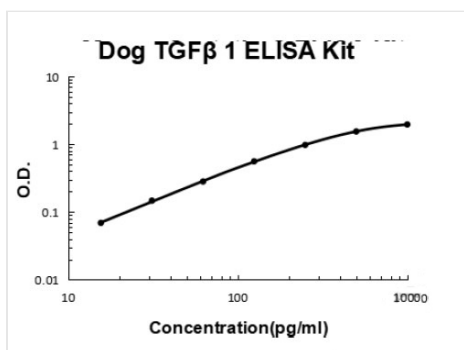
PRODUCT SYNONYMS

Transforming Growth Factor Beta-1 High-Sensitivity; Canine Transforming Growth Factor Beta-1 High-Sensitivity ELISA Kit; TGFB1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Canine
Specificity	Natural and recombinant Canine TGFB1
Detection Range	15.6 pg/ml - 1,000 pg/ml
Sensitivity	<1 pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision between assays): Three samples of known concentration were tested in separate assays to assess inter- assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles. (Shipped with wet ice)

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TGFB1 elisa kit	Background: Transforming growth factor-beta1 (TGF-beta1) is a multifunctional peptide that controls proliferation, differentiation, and other functions in many cell types. Many cells synthesize TGF-beta and essentially all of them have specific receptors for this peptide. TGF-beta regulates the actions of many other peptide growth factors and determines a positive or negative direction of their effects.TGFBeta1 is known for its potent and diverse biological effects, including immune regulation, and cell growth and differentiation.TGFBeta1 is also an important mediator of bone remodeling.TGFBeta1, a potent keratinocyte growth inhibitor, has been shown to be overexpressed in keratinocytes in certain inflammatory skin diseases and has been thought to counteract the effects of other growth factors at the site of inflammation.TGF-beta1, a multifunctional cytokine with fibrogenic properties, has been implicated in the pathogenesis of the vascular and target organ complications of hypertension. TGF-beta1 may also regulate blood pressure via stimulation of endothelin-1 and/or renin secretion. TGFBeta1 is secreted as a latent form, which consists of its mature form and a latency-associated peptide (beta1-LAP) in either the presence or the absence of additional latent TGF-beta1- binding protein. The standard product used in this kit is recombinant TGFBeta1 with the molecular mass of 25KDa. Principle of the Assay: To measure Canine TGFB1, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABCHRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Canine TGFB1 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Canine TGFB1 in the sample. Intended Uses: This kit is a solid-phase immunoassay specially designed to measure Canine TGFB1 with a 96-well strip plate that is precoated with antibody specific for TGFB1. The detection antibody is a biotinylated antibody specific for TGFB1. The capture antibody is monoclonal antibody from mouse and the detection antibody is polyclonal antibody from goat. The kit contains recombinant Canine TGFB1 with immunogen: Expression system for standard: CHO; Immunogen sequence: A279-S390. The kit is analytically validated with ready-to-use reagents.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	63025222
NCBI GeneID	7040
NCBI Accession #	NP_000651.3
NCBI GenBank Nucleotide #	NM_000660.4
UniProt Accession #	P01137; Q9UCG4; A8K792
Molecular Weight	44,341 Da
NCBI Official Full Name	transforming growth factor beta-1
NCBI Official Synonym Full Names	transforming growth factor, beta 1
NCBI Official Symbol	TGFB1
NCBI Official Synonym Symbols	CED; LAP; DPD1; TGFB; TGFBeta
NCBI Protein Information	transforming growth factor beta-1; TGF-beta-1; TGF-beta 1 protein; latency-associated peptide
UniProt Protein Name	Transforming growth factor beta-1
UniProt Gene Name	TGFB1
UniProt Synonym Gene Names	TGFB; TGF-beta-1; LAP
UniProt Entry Name	TGFB1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.