

ARG82288 Porcine TGF beta 1 ELISA Kit

Package: 96 wells Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82288-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82288-002	Standard	2 X 10 ng/vial	4°C
ARG82288-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82288-004	Antibody conjugate concentrate (100X)	1 vial (100 μl)	4°C
ARG82288-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82288-006	HRP-Streptavidin concentrate (100X)	1 vial (100 μl)	4°C
ARG82288-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82288-008	25X Wash buffer	20 ml	4°C
ARG82288-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82288-010	STOP solution	10 ml (Ready to use)	4°C
ARG82288-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82288 Porcine TGF beta 1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Porcine	
	TGF beta 1 in serum, plasma (EDTA), urine and cell culture supernatants.	
Tested Reactivity	Pig	
rested Reactivity	rig	
Tested Application	ELISA	
Specificity	Cross-reactivity: TGF beta 2, 3 and 5: < 1%	
Target Name	TGF beta 1	
Conjugation	HRP	
Conjugation Note	Substrate: TMB and read at 450 nm.	
Sensitivity	7.8 pg/ml	
Sample Type	Serum, plasma (EDTA), urine and cell culture supernatants.	
Standard Range	15.6 - 1000 pg/ml	
Sample Volume	100 μΙ	

Precision	Intra-Assay CV: 5.3%
	Inter-Assay CV: 7.5%
Alternate Names	TGFB; DPD1; TGFbeta; CED; Transforming growth factor beta-1; LAP; TGF-beta-1

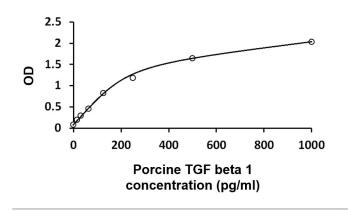
Application Instructions

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 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: <u>TGF beta antibodies;</u> <u>TGF beta ELISA Kits;</u> <u>TGF beta recombinant proteins;</u> New ELISA data calculation tool: <u>Simplify the ELISA analysis by GainData</u>
РТМ	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]



ARG82288 Porcine TGF beta 1 ELISA Kit standard curve image

ARG82288 Porcine TGF beta 1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.