

## ARG81796 Rat TGF beta 2 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG81796-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81796-002	Standard	2 X 10 ng/vial	4°C
ARG81796-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81796-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81796-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81796-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81796-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81796-008	25X Wash buffer	20 ml	4°C
ARG81796-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81796-010	STOP solution	10 ml (Ready to use)	4°C
ARG81796-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG81796 Rat TGF beta 2 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat TGF beta 2 in serum, plasma (heparin, EDTA, citrate) and cell culture supernatants.
Tested Reactivity	Rat
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	TGF beta 2
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	15.6 pg/ml
Sample Type	Serum, plasma (heparin, EDTA, citrate) and cell culture supernatants.
Standard Range	31.2 - 2000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.6%; Inter-Assay CV: 5.9%
Alternate Names	TGF-beta2; Cetermin; LDS4; Polyergin; Glioblastoma-derived T-cell suppressor factor; G-TSF; Transforming growth factor beta-2; LAP; TGF-beta-2; BSC-1 cell growth inhibitor

## Application Instructions

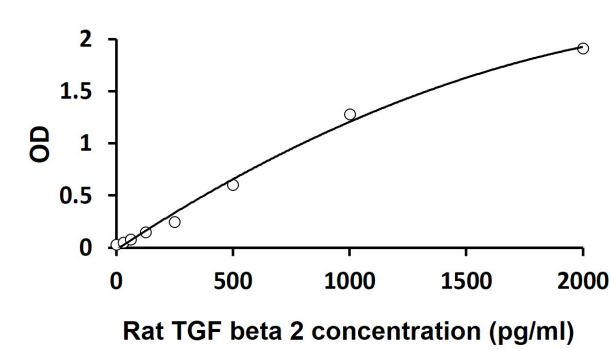
Assay Time	~ 5 hours
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## Properties

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	TGFB2
Gene Full Name	transforming growth factor, beta 2
Background	<p>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 by transducing their signal through combinations of transmembrane type I and type II receptors (TGFB1 and TGFB2) and their downstream effectors, the SMAD proteins. Disruption of the TGFB/SMAD pathway has been implicated in a variety of human cancers. The encoded protein is secreted and has suppressive effects of interleukin-2 dependent T-cell growth. Translocation t(1;7)(q41;p21) between this gene and HDAC9 is associated with Peters' anomaly, a congenital defect of the anterior chamber of the eye. The knockout mice lacking this gene show perinatal mortality and a wide range of developmental, including cardiac, defects. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Sep 2010]</p>
Function	TGF-beta 2 has suppressive effects on interleukin-2 dependent T-cell growth. [UniProt]
Highlight	<p>Related products:  <a href="#">TGF beta antibodies</a>; <a href="#">TGF beta ELISA Kits</a>; <a href="#">TGF beta recombinant proteins</a>;  New ELISA data calculation tool:  <a href="#">Simplify the ELISA analysis by GainData</a></p>
PTM	The precursor is cleaved into mature TGF-beta-2 and LAP, which remains non-covalently linked to mature TGF-beta-2 rendering it inactive. [UniProt]



ARG81796 Rat TGF beta 2 ELISA Kit standard curve image

ARG81796 Rat TGF beta 2 ELISA Kit results of a typical standard run with optical density reading at 450 nm.