

ARG81964 Rat TGFBI ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81964-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81964-002	Standard	2 X 10 ng/vial	4°C
ARG81964-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81964-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81964-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81964-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81964-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81964-008	25X Wash buffer	20 ml	4°C
ARG81964-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81964-010	STOP solution	10 ml (Ready to use)	4°C
ARG81964-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81964 Rat TGFBI ELISA Kit is an Enzyme Immunoassay kit for the quantification of Rat TGFBI in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Rat
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	TGFBI
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	78 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	156 - 10000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 5.9%; Inter-Assay CV: 6.6%
Alternate Names	CDGG1; LCD1; RGD-CAP; CSD2; CSD; Beta ig-h3; CSD1; Transforming growth factor-beta-induced protein ig-h3; RGD-containing collagen-associated protein; BIGH3; CDG2; CSD3; Kerato-epithelin; CDB1; EBMD

Application Instructions

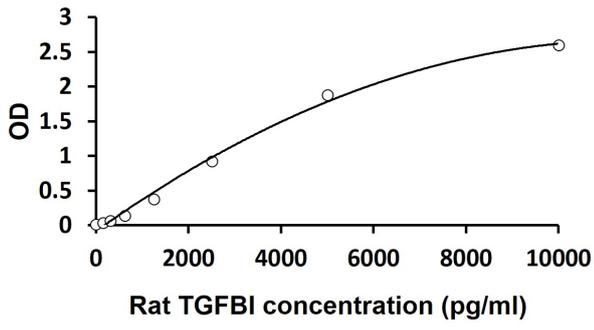
Assay Time	~ 5 hours
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Properties

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	TGFBI
Gene Full Name	transforming growth factor, beta-induced, 68kDa
Background	This gene encodes an RGD-containing protein that binds to type I, II and IV collagens. The RGD motif is found in many extracellular matrix proteins modulating cell adhesion and serves as a ligand recognition sequence for several integrins. This protein plays a role in cell-collagen interactions and may be involved in endochondrial bone formation in cartilage. The protein is induced by transforming growth factor-beta and acts to inhibit cell adhesion. Mutations in this gene are associated with multiple types of corneal dystrophy. [provided by RefSeq, Jul 2008]
Function	Binds to type I, II, and IV collagens. This adhesion protein may play an important role in cell-collagen interactions. In cartilage, may be involved in endochondral bone formation. [UniProt]
Highlight	Related products: TGFBI antibodies ; TGFBI ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
PTM	Gamma-carboxylation is controversial. Gamma-carboxyglutamated; gamma-carboxyglutamate residues are formed by vitamin K dependent carboxylation; these residues may be required for binding to calcium (PubMed:18450759). According to a more recent report, does not contain vitamin K-dependent gamma-carboxyglutamate residues (PubMed:26273833). The EMI domain contains 2 expected intradomain disulfide bridges (Cys-49-Cys85 and Cys-84-Cys-97) and one unusual interdomain disulfide bridge to the second FAS1 domain (Cys-74-Cys-339). This arrangement violates the predicted disulfide bridge pattern of an EMI domain. [UniProt]



ARG81964 Rat TGFBI ELISA Kit standard curve image

ARG81964 Rat TGFBI ELISA Kit results of a typical standard run with optical density reading at 450 nm.