

## ARG83047 Human TGF beta 2 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Summary

Product Description	ARG83047 Human TGF beta 2 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human TGF beta 2 in serum, plasma (heparin), ascites, urine and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	Not cross-reacts with: Human TGF beta1, TGF beta3, TGF alpha, TGF betaRII. Porcine TGF beta1.
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), ascites, urine and cell culture supernatants.
Standard Range	31.25 - 2000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: less than 10% Inter-Assay CV: less than 10%
Alternate Names	TGFB2, Transforming Growth Factor Beta 2 Glioblastoma-Derived T-Cell Suppressor Factor, Transforming Growth Factor Beta 2 Proprotein, Prepro Transforming Growth Factor Beta 2, Cetermin, G TSF Transforming Growth Factor, Beta 2, BSC 1 Cell Growth Inhibitor, TGF Beta2, Polyergin, LDS4

### Application Instructions

Assay Time	~ 4 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.

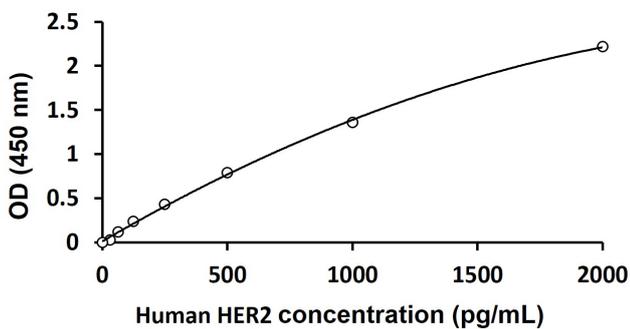
### Bioinformation

Gene Symbol	TGFB2
Gene Full Name	Transforming Growth Factor Beta 2
Background	This gene encodes a secreted ligand of the TGF-beta (transforming growth factor-beta) superfamily of

proteins. Ligands of this family bind various TGF-beta receptors leading to recruitment and activation of SMAD family transcription factors that regulate gene expression. The encoded preproprotein is proteolytically processed to generate a latency-associated peptide (LAP) and a mature peptide, and is found in either a latent form composed of a mature peptide homodimer, a LAP homodimer, and a latent TGF-beta binding protein, or in an active form consisting solely of the mature peptide homodimer. The mature peptide may also form heterodimers with other TGF-beta family members. Disruption of the TGF-beta/SMAD pathway has been implicated in a variety of human cancers. A chromosomal translocation that includes this gene is associated with Peters' anomaly, a congenital defect of the anterior chamber of the eye. Mutations in this gene may be associated with Loeys-Dietz syndrome. This gene encodes multiple isoforms that may undergo similar proteolytic processing. [provided by RefSeq, Aug 2016]

Function	Required to maintain the Transforming growth factor beta-2 (TGF-beta-2) chain in a latent state during storage in extracellular matrix. Associates non-covalently with TGF-beta-2 and regulates its activation via interaction with 'milieu molecules', such as LTBP1 and LRRC32/GARP, that control activation of TGF-beta-2. [UniProt]
Highlight	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>
PTM	The precursor proprotein is cleaved in the Golgi apparatus to form Transforming growth factor beta-2 (TGF-beta-2) and Latency-associated peptide (LAP) chains, which remain non-covalently linked, rendering TGF-beta-2 inactive. [UniProt]
Cellular Localization	Extracellular matrix, Secreted. [UniProt]

## Images



ARG83047 Human TGF beta 2 ELISA Kit standard curve image

ARG83047 Human TGF beta 2 ELISA Kit results of standard run with optical density reading at 450 nm