

Human Transforming Growth Factor beta3 (TGF-beta3) ELISA Kit | TGF-beta3 elisa kit

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CATALOG #
AAA330723

REACTIVITY
Human

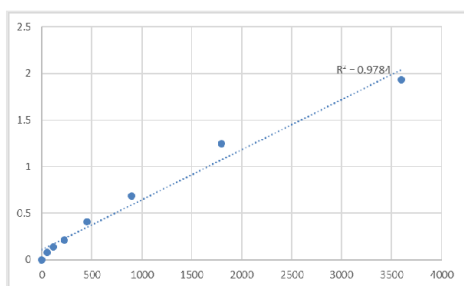
PRODUCT SYNONYMS

Transforming Growth Factor beta3 (TGF-beta3); Human Transforming Growth Factor beta3 (TGF-beta3) ELISA Kit; TGFB3; ARVD; FLJ16571; TGF-beta3; TGF-beta3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Transforming growth factor beta3 (TGF-beta3) ELISA Kit has high sensitivity and excellent specificity for detection of Human TGFB3. No significant cross-reactivity or interference between Human TGFB3 and analogues was observed.
Sequence Length	412
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Transforming growth factor beta3 (TGF-beta3) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for TGF-beta3 elisa kit	Description: This Human Transforming growth factor beta3 (TGF-beta3) ELISA Kit employs a two-site sandwich ELISA to quantitate TGFB3 in samples. An antibody specific for TGFB3 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TGFB3 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TGFB3 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of TGFB3 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: TGF-beta3 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. TGF-beta3 is involved in embryogenesis and cell differentiation, and may play a role in wound healing. Mutations in TGF-beta3 are a cause of aortic aneurysms and dissections, as well as familial arrhythmogenic right ventricular dysplasia 1.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4507465
NCBI GeneID	7043
NCBI Accession #	NP_003230.1
NCBI GenBank Nucleotide #	NP_003230.1
UniProt Accession #	P10600
NCBI Official Full Name	transforming growth factor beta-3 proprotein isoform 1 preproprotein
NCBI Official Synonym Full Names	transforming growth factor beta 3
NCBI Official Symbol	TGFB3
NCBI Official Synonym Symbols	ARVD; LDS5; RNHF; ARVD1; TGF-beta3
NCBI Protein Information	transforming growth factor beta-3 proprotein
UniProt Protein Name	Transforming growth factor beta-3
UniProt Gene Name	TGFB3
UniProt Synonym Gene Names	TGF-beta-3; LAP
UniProt Entry Name	TGFB3_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.