Transforming Growth Factor Beta3 (TGFbeta3) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Transforming Growth Factor beta3 (TGFbeta3), ELISA Kit
Full Product Name	Human Transforming Growth Factor beta3 ELISA Kit
Product Gene Name	TGFbeta3 elisa kit
Product Synonym Gene Name	TGFb3
Product Synonym Names	Human Transforming Growth Factor b3 ELISA Kit
Species Reactivity	Human
Assay Type	Competitive
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Detection Range	50-1000pg/mL
Sensitivity	1.0pg/mL
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	47,328 Da
OMIM	gene 615582
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Product Categories/Family for TGFbeta3 elisa kit	Cancer
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for TGFbeta3 elisa kit	MBS754276 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Transforming Growth Factor beta3 (TGFbeta3) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing TGFbeta3. The ELISA analytical biochemical technique of the MBS754276 kit is based on TGFbeta3 antibody-TGFbeta3 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect TGFbeta3 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, TGFbeta3. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of TGFbeta3 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TGFbeta3. It may not necessarily be applicable to this product.

NCBI GI #	4507465
NCBI GeneID	7043
NCBI Accession #	NP_003230.1
UniProt Related Accession #	P10600

GenBank Nucleotide #	NM_003239.3
NCBI Official Full Name	transforming growth factor beta-3 preproprotein
NCBI Official Synonym Full Names	transforming growth factor, beta 3
NCBI Official Symbol	TGFB3
NCBI Official Synonym Symbols	ARVD; RNHF; ARVD1; TGF-beta3
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
NCBI Protein Information	transforming growth factor beta-3; TGF-beta-3; prepro-transforming growth factor beta-3
NCBI Summary for TGFbeta3	This gene encodes a member of the TGF-beta family of proteins. The encoded protein is secreted and is involved in embryogenesis and cell differentiation. Defects in this gene are a cause of familial arrhythmogenic right ventricular dysplasia 1. [provided by RefSeq, Mar 2009]
UniProt Comments for TGFbeta3	TGFB3: Involved in embryogenesis and cell differentiation. Homodimer; disulfide-linked. Interacts with ASPN. Belongs to the TGF-beta family. Protein type: Cell development/differentiation; Secreted, signal peptide; Motility/polarity/chemotaxis; Ligand, receptor tyrosine kinase; Secreted Chromosomal Location of Human Ortholog: 14q24 Cellular Component: extracellular matrix; extracellular space; cell surface; cell soma; T-tubule; extracellular region; plasma membrane; nucleus Molecular Function: identical protein binding; protein binding; growth factor activity; protein heterodimerization activity; transforming growth factor beta binding; punt binding; cytokine activity Biological Process: extracellular matrix organization and biogenesis; activation of MAPK activity; positive regulation of apoptosis; positive regulation of transcription, DNA-dependent; positive regulation of collagen biosynthetic process; palate development; female pregnancy; SMAD protein nuclear translocation; odontogenesis; regulation of apoptosis; negative regulation of cell proliferation; platelet degranulation; mammary gland development; transforming growth factor beta receptor signaling pathway; salivary gland morphogenesis; embryonic neurocranium morphogenesis; negative regulation of neuron apoptosis; cell growth; inner ear development; aging; positive regulation of filopodium formation; uterine wall breakdown; intercellular junction assembly and maintenance; platelet activation; in utero embryonic development; positive regulation of bone mineralization; regulation of cell proliferation; gut development; positive regulation of protein secretion; negative regulation of DNA replication; response to estrogen stimulus; positive regulation of cell division; regulation of MAPKKK cascade; response to hypoxia; positive regulation of transcription from RNA polymerase II promoter; negative regulation of transforming growth factor beta receptor signaling pathway; response to progesterone stimulus; blood coagulation; alveolus development; positive regulation of DNA replication Disease: Arrhythmogenic Right Ventricular Dysplasia, Familial, 1; Rienhoff Syndrome
Research Articles on TGFbeta3	**1.** TGF-beta3 could be stably expressed in pcDNA3.1(+)-hTGF-beta3-transfected PSCs.
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