

Human TGF-beta Receptor Type-1 (TGFB1) ELISA Kit | TGFB1 elisa kit

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CATALOG #
AAA330725

REACTIVITY
Human

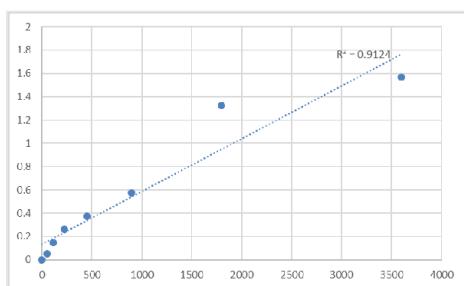
PRODUCT SYNONYMS

TGF-beta Receptor Type-1 (TGFB1); Human TGF-beta Receptor Type-1 (TGFB1) ELISA Kit; TGFB1; AAT5; ACVRLK4; ALK-5; ALK5; LDS1A; LDS2A; SKR4; TGFR-1; activin A receptor type-like kinase; 53kD; 53kDa; activin receptor-like kinase 5; serine/threonine-pro; TGFB1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human TGF-beta receptor type-1 (TGFB1) ELISA Kit has high sensitivity and excellent specificity for detection of Human TGFB1. No significant cross-reactivity or interference between Human TGFB1 and analogues was observed.
Sequence Length	426
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 TGF-beta receptor type-1 (TGFB1) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for TGFBR1 elisa kit	Description: This Human TGF-beta receptor type-1 (TGFB1) ELISA Kit employs a two-site sandwich ELISA to quantitate TGFB1 in samples. An antibody specific for TGFB1 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any TGFB1 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for TGFB1 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 TGFB1 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: TGF-beta receptor type-1 (TGFB1) forms a heteromeric complex with type II TGF-beta receptors when bound to TGF-beta, transducing the TGF-beta signal from the cell surface to the cytoplasm. TGFB1 is a serine/threonine protein kinase. Mutations in TGFB1 have been associated with Loeys-Dietz aortic aneurysm syndrome (LDAS). Multiple transcript variants encoding different isoforms have been found for TGFB1.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	195963412
NCBI GeneID	7046
NCBI Accession #	NP_001124388.1
NCBI GenBank Nucleotide #	NP_001124388.1
UniProt Accession #	P36897
NCBI Official Full Name	TGF-beta receptor type-1 isoform 2
NCBI Official Synonym Full Names	transforming growth factor beta receptor 1
NCBI Official Symbol	TGFB1
NCBI Official Synonym Symbols	AAT5; ALK5; ESS1; LDS1; MSSE; SKR4; TBRI; ALK-5; LDS1A; LDS2A; TBR-i; TGFR-1; ACVRLK4; tbetaR-I
NCBI Protein Information	TGF-beta receptor type-1
UniProt Protein Name	TGF-beta receptor type-1
UniProt Gene Name	TGFB1
UniProt Synonym Gene Names	ALK5; SKR4; TGFR-1; ALK-5; ALK5; SKR4; TGF-beta receptor type I; TbetaR-I
UniProt Entry Name	TGFR1_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.