

Human Transforming Growth Factor Beta Receptor I (TGFbR1) ELISA Kit | TGFbR1 elisa kit

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CATALOG #
AAA140050

REACTIVITY
Human

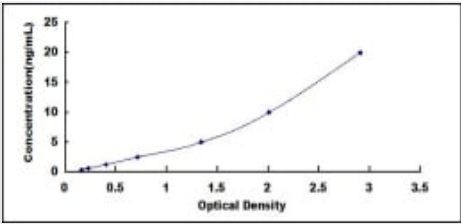
PRODUCT SYNONYMS

Transforming Growth Factor Beta Receptor I (TGFbR1); Human Transforming Growth Factor Beta Receptor I (TGFbR1) ELISA Kit; ACVRLK4; AAT5; ALK5; SKR4; TGFR-1; Activin A Receptor Type II-Like Kinase 53kDa; Activin receptor-like kinase 5; Serine/threonine-protein kinase receptor R4; TGFbR1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of Transforming Growth Factor Beta Receptor I (TGFbR1). No significant cross-reactivity or interference between Transforming Growth Factor Beta Receptor I (TGFbR1) and analogues was observed.
Sequence Length	426
Assay Type	Double-antibody Sandwich
Samples	Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	0.312-20ng/mL
Sensitivity	0.122ng/mL
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Transforming Growth Factor Beta Receptor I (TGFbR1) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Transforming Growth Factor Beta Receptor I (TGFbR1) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TGFbR1 elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Transforming Growth Factor Beta Receptor I (TGFbR1). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Transforming Growth Factor Beta Receptor I (TGFbR1). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Transforming Growth Factor Beta Receptor I (TGFbR1), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Transforming Growth Factor Beta Receptor I (TGFbR1) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for TGFbR1 elisa kit	Tumor immunity; Infection immunity

NCBI AND UNIPROT INFORMATION

NCBI GI #	4759226
NCBI GeneID	7046
NCBI Accession #	NP_004603.1
NCBI GenBank Nucleotide #	NM_004612.3
UniProt Accession #	P36897; Q6IR47; Q706C0; Q706C1
Molecular Weight	47,690 Da
NCBI Official Full Name	TGF-beta receptor type-1 isoform 1
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; ALK-5; LDS1A; LDS2A; 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.