

Datasheet for ABIN5659462

TGFBR1 ELISA Kit



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Quantity:	96 tests
Target:	TGFBR1
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	0.156 ng/mL - 10 ng/mL
Minimum Detection Limit:	0.156 ng/mL
Application:	FLISA

Product Details

Sample Type:	Cell Lysate, Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
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.
Sensitivity:	0.061 ng/mL

Target Details

Target:	TGFBR1
Alternative Name:	Transforming Growth Factor Beta Receptor I (TGFBR1 Products)

Target Details Gene Name: Transforming Growth Factor Beta Receptor I Background: Gene Aliases: ACVRLK4, AAT5, ALK5, SKR4, TGFR-1, Activin A Receptor Type II-Like Kinase 53 kDa, Activin receptor-like kinase 5, Serine/threonine-protein kinase receptor R4 Pathways: **Growth Factor Binding Application Details** The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than Comment: 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. Assay Time: 3 h Plate: Pre-coated Protocol: 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. Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level Assay Precision: 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

replicates in each plate. CV(%) = SD/meanX100

Intra-Assay: CV<10%

Inter-Assay: CV<12%

Transforming Growth Factor Beta Receptor I (TGFbR1) were tested on 3 different plates, 8

Application Details

Restrictions:	For Research Use only
Handling	
Handling Advice:	The Stop Solution is acidic. Do not allow to contact skin or eyes. Calibrators, controls and
	specimen samples should be assayed in duplicate. Once the procedure has been started, all
	steps should be completed without interruption.
Storage:	4 °C,-20 °C
Storage Comment:	-20°C. Bring all reagents to room temperature before beginning test. The kit may be stored at
	4°C for immediate use within two days upon arrival. Reseal any unused strips with desiccant
	pack. Minimize freeze/thaw cycles.
Expiry Date:	4-8 months