

Datasheet for ABIN5659463 TGFBR1 ELISA Kit



Overview

Quantity:	96 tests
Target:	TGFBR1
Reactivity:	Rat
Method Type:	Sandwich ELISA
Detection Range:	0.312 ng/mL - 20 ng/mL
Minimum Detection Limit:	0.312 ng/mL
Application:	ELISA

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:	0.122 ng/mL
Target Details	

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

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Target Details	
Background:	Gene Name: Transforming Growth Factor Beta Receptor I 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	
Comment:	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.
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 \pm 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.
Assay Precision:	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%

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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